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Annual Report  
of the  
President  
of the  
Borough of Queens  
1915

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# ANNUAL REPORT

OF THE

## PRESIDENT

OF THE

## BOROUGH OF QUEENS

1915

MAURICE E. CONNOLLY, PRESIDENT

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THE CITY OF NEW YORK  
OFFICE OF THE PRESIDENT OF  
THE BOROUGH OF QUEENS

*Hon. JOHN PURROY MITCHEL,*  
*Mayor of The City of New York:*

SIR—Pursuant to the provisions of the Charter of The City of New York, I transmit herewith the annual report of the operations of the office of the President of the Borough of Queens for the year ended December 31, 1915.

Yours very truly,

MAURICE E. CONNOLLY,  
President of the Borough of Queens.

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**OFFICIALS OF THE  
BOROUGH OF QUEENS, 1915**

<i>President of the Borough.....</i>	MAURICE E. CONNOLLY
<i>Commissioner of Public Works.....</i>	JAMES A. DAYTON
<i>Secretary of the Borough.....</i>	JOSEPH FLANAGAN
<i>Assistant Commissioner of Public Works.....</i>	ALBERT C. BENNINGER
<i>Superintendent of Highways.....</i>	G. HOWLAND LEAVITT
<i>Superintendent of Sewers.....</i>	JOHN R. HIGGINS
<i>Superintendent of Street Cleaning.....</i>	DANIEL EHNTHOLT
<i>Superintendent of Public Buildings and Offices.....</i>	JOSEPH SULLIVAN
<i>Superintendent of Building Construction and Alteration.....</i>	JOHN W. MOORE
<i>Engineer in Charge of Construction.....</i>	JAMES RICE
<i>Engineer in Charge of Topographical Bureau.....</i>	CHARLES U. POWELL



# THE CITY OF NEW YORK

## OFFICE OF THE PRESIDENT OF THE BOROUGH OF QUEENS

MAURICE E. CONNOLLY, *President.*

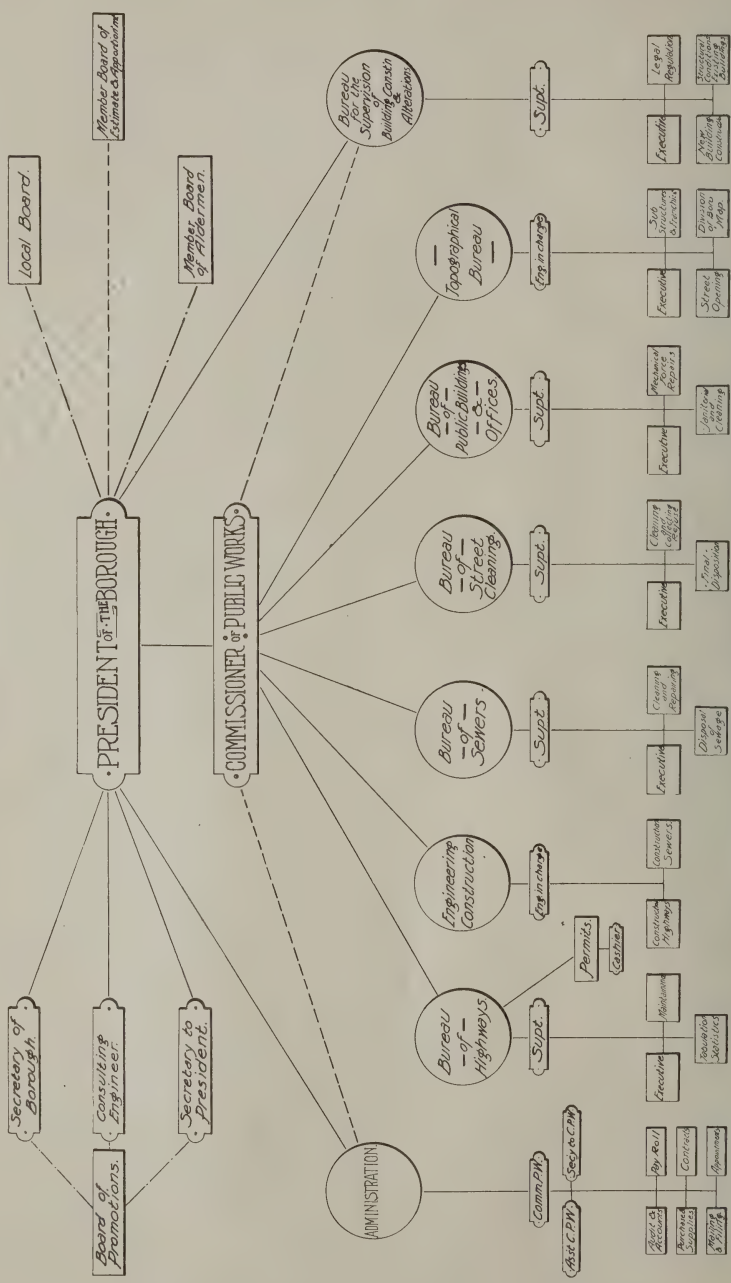
The Charter of The City of New York provides that the President of the Borough shall submit to the Mayor, annually, a report showing the operations of the various departments under his supervision. A summarized report for the year ended December 31, 1915, has been prepared and is herewith transmitted.

The City of New York is divided into five boroughs for the purpose of administering the functions of municipal government that are local in character. The Borough of Queens consists of the territory known as Queens County and the electors thereof elect a President for a term of four years. By virtue of his office the President is a member of the local boards of every district of local improvement in his borough and is chairman thereof. The President is also a member of the Board of Estimate and Apportionment and a member of the Board of Aldermen. The President has control of regulating, grading, curbing, flagging and guttering of streets and laying of crosswalks, of constructing and repairing public roads, of paving, repaving, resurfacing and repairing of all streets, and of the relaying of all pavement; of the laying or relaying of surface railroads tracks, the filling of sunken lots, fencing of vacant lots, digging down lots, licensing vaults under sidewalks, removal of encumbrances, the issue of permits to use or open the streets. He has control of the construction and maintenance of all bridges and tunnels except such bridges as cross navigable streams; the construction and supervision of sewers, of the construction, repairs, cleaning and maintenance of public buildings (except school-houses, almshouses, penitentiaries and fire and police station houses), of the care and cleaning of all offices occupied for public use; of the location, establishment, care, erection and maintenance of the public baths, public urinals and public comfort stations; and of the placing of all street signs, of the cleaning of the streets, the removal of ashes, street sweepings and garbage; of the framing of regulations controlling the use of sidewalks and gutters.

The office of the President of the Borough is divided into eight bureaus, each of which performs certain designated functions. These bureaus are: (1) Administration, (2) Highways, (3) Engineering Construction, (4) Sewers, (5) Street Cleaning, (6) Public Buildings and Offices, (7) Topographical, (8) Supervision of Building Construction and Alteration.

### *Local Boards.*

For the purposes of home rule and local improvements the Borough of Queens is divided into two districts, called Newtown (Wards 1 and 2) and Jamaica (Wards 3, 4 and 5). In each of these districts is a board of local improvements known as "the local board," entrusted with the powers prescribed by the Charter. The local boards have jurisdiction over those subjects or matters the costs and expenses whereof are a charge upon the people or property of the district for local administration within such district. The local board consists of the President of the Borough and each member of the Board of Aldermen who represents an Aldermanic district within such local improvement district.



— KEY TO CHART —  
 ○ Denotes Bureau, □ Denotes Division, — Denotes Director,  
 — Points to Official Head, --- Member of Division, --- Operates in conjunction with

# LOCAL BOARDS

The following is a summary of the activities of the Local Boards, Borough of Queens, for the year ended December 31, 1915:

Number of Petitions Considered.					Improvements Initiated.				Kind.	Total Estimated Cost of Improvements Initiated.
1st Quarter.	2d Quarter.	3d Quarter.	4th Quarter.		1st Quarter.	2d Quarter.	3d Quarter.	4th Quarter.		
15	14	10	11	11	12	14	10	11	For sewer construction.....	\$522,073.00
4	1	..	..	..	4	1	..	..	For basins, in accordance with Section 435 of the Charter.....	3,304.02
6	5	3	4	4	3	3	3	4	For laying sidewalks in accordance with Section 435 of the Charter.....	11,300.00
28	2	4	3	2	..	2	3	2	For regulating and grading.....	63,650.00
..	10	6	6	4	20	5	4	3	For regulating, grading, curbing and laying sidewalks.....	249,200.00
..	..	3	4	4	..	..	3	4	For regulating, grading, curbing, laying sidewalks and crosswalks.....	173,640.00
9	2	6	4	3	8	2	5	3	For regulating, grading, curbing, laying sidewalks and paving.....	1,599,000.00
13	7	5	4	3	10	6	5	3	For paving.....	271,050.00
16	8	6	9	5	6	8	5	6	For acquiring title.....	..
3	4	5	6	4	1	4	4	5	For changing map.....	..
..	1	..	..	..	..	1	..	..	For closing.....	..
5	11	3	5	3	4	11	3	5	For water.....	..
20	31	16	10	10	20	31	16	10	For gas and electricity.....	..
5	1	1	3	2	3	1	1	2	Miscellaneous.....	..
124	97	68	69	58	91	89	62	58		\$2,893,217.02

Resolutions reconsidered—		Rescinded	51
Amended	48		
..	..	..	..





**BUREAU OF ADMINISTRATION**





## BUREAU OF ADMINISTRATION.

The main offices of the President of the Borough of Queens are located in the Borough Hall, 55 Jackson avenue, Long Island City, and housed in this building are the offices of the Commissioner of Public Works, the Consulting Engineer and the Secretary of the Borough.

### GENERAL ADMINISTRATION.

The directors designated for the several bureaus are as follows:

Administration .....	Director—The Commissioner of Public Works.
Highways .....	Director—The Superintendent of Highways.
Engineering Construction .....	Director—The Engineer in Charge.
Sewers .....	Director—The Superintendent of Sewers.
Street Cleaning .....	Director—The Superintendent of Street Cleaning.
Public Buildings and Offices.....	Director—The Superintendent of Public Buildings and Offices.
Topographical .....	Director—The Engineer in Charge.
Supervision of Building Construction and Alteration .....	Director—The Superintendent of Building Construction and Alteration.

The divisions of the several bureaus and the chiefs of each division are as follows:

#### ADMINISTRATION.

Audit and Accounts.....	Chief—The Executive Clerk.
Pay Rolls .....	Chief—The Clerk in Charge.
Purchase and Storage of Supplies.....	Chief—The Purchasing Agent.
Appointments .....	Chief—The Clerk in Charge.
Contracts .....	Chief—The Clerk in Charge.
Mailing and Filing.....	Chief—The Clerk in Charge.

#### HIGHWAYS.

Executive .....	Chief—The Chief Clerk.
Maintenance—Roadways, Viaducts and Streets .....	Chief—The Assistant Engineer in Charge.
Tabulation and Statistics.....	Chief—The Assistant Engineer in Charge.

#### ENGINEERING CONSTRUCTION.

Highways .....	Chief—The Assistant Engineer in Charge.
Sewers .....	Chief—The Assistant Engineer in Charge.

#### SEWERS.

Executive .....	Chief—The Chief Clerk.
Cleaning and Repairing.....	Chief—The Assistant Engineer in Charge.
Disposal .....	Chief—The Assistant Engineer in Charge.

#### STREET CLEANING.

Executive .....	Chief—The Chief Clerk.
Street Cleaning and Collection Refuse..	Chiefs—The District Superintendents.
Final Disposition .....	Chiefs—The Foremen in Charge.

#### PUBLIC BUILDINGS AND OFFICES.

Executive .....	Chief—The Chief Clerk.
Maintenance of Offices and Office Buildings .....	Chief—The Foreman in Charge.
Maintenance and Operation Baths and Comfort Stations .....	Chief—The Foreman in Charge.

#### TOPOGRAPHICAL.

Executive .....	Chief—Chief Clerk.
Substructures and Franchises.....	Chief—Assistant Engineer in Charge.
Street Openings .....	Chief—Assistant Engineer in Charge.
Borough Map .....	Chief—Assistant Engineer in Charge.

#### SUPERVISION OF BUILDING CONSTRUCTION AND ALTERATION.

Executive .....	Chief—The Chief Clerk.
New Building Construction and Alteration .....	Chief—The Chief Inspector.
Structural Conditions in Existing Buildings .....	Chief—The Chief Inspector.
Legal Regulation .....	Chief—The Chief Inspector.

REPORT OF THE BUREAU OF ADMINISTRATION FOR THE YEAR  
ENDED DECEMBER 31, 1915.

DIVISION OF AUDIT AND ACCOUNTS.

The auditing of all revenues and disbursements of the office of the Borough President, as well as the accounting work, is performed in this division. The stores ledgers for all stores in the borough and the expense distribution of all activities are kept in this division. Statistical information is prepared as desired and all financial statements are prepared in this division.

The trial balances or statements of balances of general ledger accounts and a statement of the condition of the accounts as at December 31, 1915, follow:

TRIAL BALANCE, GENERAL LEDGER, DECEMBER 31, 1915.

Account.	Dr.	Cr.
Budget allowance .....	\$133,976.29	.....
Appropriation, 1909 .....	.....	\$21.34
Appropriation, 1910 .....	.....	84.00
Appropriation, 1911 .....	.....	138.00
Appropriation, 1912 .....	.....	42.60
Appropriation, 1913 .....	.....	31.28
Appropriation, 1914 .....	.....	1,014.87
Appropriation, 1915 .....	.....	132,644.20
Special Revenue Bond Fund.....	141.80	.....
Special Revenue Bond Fund Reserve.....	.....	141.80
Corporate Stock Fund.....	.....	9,079,014.61
Corporate Stock Fund Reserve.....	9,079,014.61	.....
Special and Trust Funds .....	27,714.45	.....
Special and Trust Funds Reserve.....	.....	27,714.45
Open Market Orders.....	28,124.37	.....
Open Market Orders, Reserve Appropriation.....	.....	18,227.39
Open Market Orders, Reserve Special Revenue Bond.....	.....	1,995.65
Open Market Orders, Reserve Corporate Stock Fund.....	.....	2,893.85
Open Market Orders, Reserve Special and Trust Funds..	.....	5,007.48
Contracts .....	1,430,276.56	.....
Contracts, Reserve Appropriations .....	.....	61,004.91
Contracts, Reserve Special Revenue Bonds.....	.....	8,659.60
Contracts, Reserve Corporate Stock Funds.....	.....	1,358,842.05
Contracts, Reserve Special and Trust Funds.....	.....	1,770.00
Contract Orders .....	46,179.20	.....
Contract Orders, Uncleared .....	.....	46,179.20
Department of Finance .....	.....	10,938,880.95
Office Furniture and Equipment.....	51,243.13	.....
General Plant Equipment .....	1,141,734.77	.....
Expense, 1914 .....	2,429.98	.....
Expense, 1915 .....	1,922,227.25	.....
Stores, 1914 .....	199.36	.....
Stores, 1915 .....	56,827.94	.....
General Plant Equipment, D-Finance .....	.....	1,104,987.27
Construction .....	1,605,568.30	.....
Recoverable Expense .....	7,593,816.53	.....
Invoices Payable .....	.....	345,980.28
Restoring and Repaving .....	.....	44,394.08
Excess Accounts Receivable .....	2,908.67	.....
Vault Permits .....	.....	5,173.50
Security Deposit Funds .....	.....	49,942.00
Sewer Permits .....	.....	10,855.00
Construction Private Sewer .....	.....	5,447.47
Appropriation Cash .....	.....	474.73
Sundries .....	.....	191.00

Account.	Dr.	Cr.
Reserve for Restoring and Repave Streets.....		6,236.01
Finance Department .....	163,396.17	
Surplus Restoring and Repaving.....		4,019.79
Refunds Due Plumbers .....		7,673.18
Roof and Sheds Permits .....		5.00
Bay Window Permits .....		6.91
Permits for Roof and Ground Signs .....		285.00
General Fund .....		314.85
Privileges .....		5,603.80
Ornamental Projection Permits .....		40.14
Cash Repaving Street, Borough of Queens.....		9,217.79
Totals .....	\$23,285,779.38	\$23,285,779.38

STATEMENT OF CONDITION OF ACCOUNTS AS AT DECEMBER 31, 1915.

*Appropriations.*

Balance of Appropriations unexpended Dec. 31, 1914 .....		\$140,777.11	
Increase in Funds due to Res. of Bd. of E. and A.:			
Prior years .....	\$271.39		
Current year .....	2,045,466.70		
		2,045,738.09	
Increase due to Cash Refunds, etc.:			
Prior years .....	\$306.39		
Current year .....	168.34		
		474.73	
Total amount of Appropriations allowed, 1915 .....		\$2,186,989.93	
Amount of Transfers to General Fund, 1915. ....		67,983.44	
Actual amount available for the liquidation of liabilities during 1915 .....			\$2,119,006.49
Amount of vouchers issued:			
Prior years .....	\$72,039.36		
Current year .....	1,912,990.84		
			1,985,030.20
Balance Unexpended Dec. 31, 1915.....			\$133,976.29
Prior years .....	\$1,332.09		
Current year .....	132,644.20		
Liabilities outstanding Dec. 31, 1915.....	\$133,976.29		
Amount reserved for Contracts:			
Current year .....		\$61,004.91	
Amount reserved for O. M. Orders:			
Prior years .....	241.60		
Current year .....	17,985.79	18,227.39	
Total amount of reserve.....			79,232.30
Balance unencumbered Dec. 31, 1915.....			\$50,743.89

*Special Revenue Bond Funds.*

Balance unexpended Dec. 31, 1914.....	\$40,833.07	
Increases due to Res. of B. of E. & A.....	12,418.05	
		<hr/>
Total amount allowed during 1915.....	\$53,251.12	
Amount transferred to Gen. Fund, 1915.....	2,420.90	
Actual amount available for the liquidation of liabilities for 1915.....		50,830.24
Amount of vouchers issued during year.....		31,406.85
		<hr/>
Balance unexpended Dec. 31, 1915.....		\$19,423.39
Amount Reserved for Open Market Orders.....	\$8,659.60	
Amount Reserved for Contracts .....	1,995.65	
		<hr/>
		10,655.25
		<hr/>
Balance unencumbered Dec. 31, 1915.....		\$8,768.14

*Corporate Stock Funds.*

Balance Unexpended Dec. 31, 1914.....	\$1,807,191.71	
Increase due to authorization, B. of E. & A. \$120,000.00		
Increase due to amount to be collected by as-		
essment .....	1,179,391.44	
Increase due to Cash Refunds.....	10,174.24	
		<hr/>
	1,309,565.68	
		<hr/>
Total Amount allowed, 1915.....		\$3,116,757.39
Amount of Transfers to Gen. Fund, 1915.....	\$23,984.83	
Actual amount available for liquidation of liabilities.....		\$3,092,772.56
Amount of vouchers issued during 1915 .....		1,480,520.17
		<hr/>
Balance unexpended Dec. 31, 1915.....		\$1,612,520.39
Liabilities outstanding Dec. 31, 1915:		
Reserved for Open Market Orders.....	\$2,893.85	
Reserved for Contracts .....	1,358,842.05	
		<hr/>
		1,361,735.90
		<hr/>
Balance unencumbered Dec. 31, 1915.....		\$250,784.49

*Special and Trust Funds.*

Balance unexpended Dec. 31, 1914.....	\$14,084.74	
Increase due to Cash received.....	44,460.71	
		<hr/>
	\$58,545.45	
Deduct vouchers to date .....	30,831.00	
		<hr/>
Balance unexpended .....		\$27,714.45
Liabilities outstanding Dec. 31, 1915:		
Reserved for Open Market Order.....	\$1,770.00	
Reserved for Contract .....	5,007.48	
		<hr/>
		6,777.48
		<hr/>
Balance unencumbered Dec. 31, 1915.....		\$20,936.97

The following is a statement showing the expense distribution by functional budget classifications for the year ended December 31, 1915:

# SUMMARY BY BUREAUS.

Functional Budget Classification.	General Administration.	Topographical Bureau.	Bureau of Highways.	Bureau of Engineering and Inspection.	Bureau of Public Buildings and Offices.	Bureau of Sewers.	Bureau of Street Cleaning.	Supervision of Building and Structural Alteration.	Summary.	
									Sub-Totals.	Totals.
Personal Service .....	\$86,119.86	\$191,228.60	\$393,741.92	\$50,847.21	\$83,990.08	\$135,409.61	\$62,880.45	\$76,983.51	\$1,280,292.24	\$1,280,292.24
Supplies .....	.....	.....	.....	.....	.....	.....	.....	.....	79.50	79.50
Botanical Supplies .....	.....	.....	.....	.....	79.50	.....	.....	.....	.....	.....
Office Supplies .....	1,399.68	299.50	53.21	96.38	2,050.90	50.40	121.16	167.00	4,238.23	4,238.23
General Plant Supplies .....	102.53	2,529.55	926.87	1,197.73	928.49	417.51	45.54	.....	6,148.22	6,148.22
Fuel Supplies .....	.....	.....	5,410.39	.....	6,909.95	3,983.97	1,525.40	.....	17,829.71	17,829.71
Laundry, Cleaning, Disinfecting, etc. ....	.....	.....	27.05	.....	371.62	5,441.36	43.66	.....	5,883.69	5,883.69
Motor Vehicle Supplies .....	749.41	200.67	717.36	274.15	1,218.00	242.61	150.29	268.32	2,602.81	2,602.81
Food Supplies .....	.....	.....	.....	.....	.....	.....	.....	.....	1,218.00	1,218.00
Materials .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Building Materials .....	.....	.....	444.42	.....	2,503.57	430.42	489.75	.....	3,868.16	3,868.16
Highway Plant Materials .....	.....	16.62	2,087.62	8.28	541.31	863.68	881.11	.....	4,398.62	4,398.62
Highway Materials .....	.....	.....	154,055.73	.....	.....	.....	.....	.....	154,073.33	154,073.33
Sewer Materials .....	.....	.....	.....	.....	.....	3,143.55	.....	.....	3,143.55	3,143.55
Equipment Issued as Consumable Stores. ....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
General Plant Equipment .....	25.00	2,855.06	13,000.48	1,525.74	1,469.84	4,546.74	4,936.82	.....	28,379.68	28,379.68
Motorless Vehicles and Equipment .....	.....	.....	960.30	.....	.....	.....	4,171.25	.....	5,131.55	5,131.55
Motor Vehicles and Equipment .....	2,240.45	1,292.74	4,026.08	201.95	.....	1,159.82	3,408.11	250.92	12,765.99	12,765.99
Office Equipment .....	906.20	846.98	372.60	520.04	2,027.94	4.33	5.73	6.30	796.37	796.37
Wearing Apparel .....	.....	36.14	84.49	.....	.....	613.99	.....	.....	.....	.....
Cleaning .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
General Repairs .....	52.79	591.66	19,611.58	130.75	5,743.95	4,084.84	2,293.85	4.90	32,504.50	32,504.50
Motor Vehicle Repairs .....	1,264.30	418.04	866.46	269.77	.....	265.66	142.85	395.95	3,603.03	3,603.03
Transportation—	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Hire of Auto .....	.....	1,346.00	.....	.....	220.00	300.00	.....	.....	300.00	300.00
Hire of Horses and Vehicles with Drivers ..	.....	116,835.26	.....	.....	.....	22,569.80	252,397.52	.....	393,368.58	393,368.58
Hire of Horses and Vehicles without Drivers ..	.....	5,834.86	.....	.....	.....	2,800.00	.....	.....	8,634.86	8,634.86
Hire of Auto Truck .....	.....	362.50	.....	.....	.....	.....	.....	.....	362.50	362.50
Carfare .....	273.06	2,948.57	2,030.45	333.11	311.55	750.41	2,173.32	.....	13,150.31	13,150.31
Expressage and Delivery .....	5.44	4,397.90	8.03	.....	29.69	15.31	.....	.....	607.95	607.95
Storage of Motor Vehicles .....	.....	.....	.....	1.65	.....	240.00	480.00	.....	3,053.00	3,053.00
Stabling and Boarding Horses, etc. ....	1,113.00	300.00	480.00	200.00	.....	.....	2,066.50	.....	2,066.50	2,066.50
Communication—	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Telephone Service .....	.....	36.50	.....	58.70	2,976.09	.....	.....	.....	3,071.59	3,071.59
General Plant Service .....	9.50	414.30	1,198.00	2.00	710.32	1,247.90	9,613.99	228.23	13,424.24	13,424.24
Contingencies .....	267.50	1.21	.....	10	110.00	11.15	.....	.....	389.96	389.96
Total Expenses—Current Period .....	\$48,362.29	\$105,405.88	\$443,926.47	\$26,570.46	\$60,937.38	\$98,189.13	\$290,205.44	\$40,630.36	\$1,114,227.41	\$1,114,227.41
To Date .....	\$94,578.80	\$205,363.07	\$726,129.72	\$57,351.28	\$112,186.62	\$188,183.38	\$546,335.72	\$80,038.45	\$2,010,187.04	\$2,010,187.04



## PAYROLL DIVISION.

This division is charged with the preparation of all payrolls of the department or office of the Borough President, covering some 2,000 employees. It records the time reports transmitted to it by the various bureaus. All charges are then figured and the schedule line expenditures recorded. The time is then transcribed on payroll voucher forms and the vouchers forwarded to the Department of Finance. The employees' payroll vouchers are prepared semi-monthly for those on an annual basis and weekly for those on a per diem basis. Communications pertaining to personal service are recorded and filed. A record is kept of all absences and latenesses of per annum employees, which is charged against the time allowance or vacation period of each. Duplicate payroll vouchers are registered, scheduled and filed.

## DIVISION OF PURCHASE AND STORAGE OF SUPPLIES.

All supplies, equipment and materials are purchased through this division on requisitions approved by the directors of the various bureaus, after obtaining estimates on the specifications from reliable concerns, and orders are issued to the lowest bidders.

THE FOLLOWING IS A STATEMENT OF THE CONTRACT AND OPEN MARKET ORDERS ISSUED DURING 1915.

Month.	No.	Appropriation.	Special Revenue Bonds.	Corporate Stock.	Special and Trust Fund.	Total.
January .....	251	\$8,992.54	.....	.....	\$310.00	\$9,302.54
February .....	200	6,651.38	.....	\$68.23	300.00	7,019.61
March .....	294	13,539.05	.....	139.15	580.25	14,258.45
April .....	263	20,785.10	.....	1,186.34	935.00	22,906.44
May .....	390	50,315.46	.....	1,265.70	641.05	52,222.22
June .....	377	42,819.07	\$102.33	3,041.40	2,032.00	47,994.80
July .....	290	31,825.16	261.15	239.67	966.50	33,292.48
August .....	250	19,480.11	653.32	997.50	630.00	21,760.93
September .....	252	27,427.67	66.85	186.63	1,781.60	29,462.75
October .....	232	26,236.98	34.02	.....	2,503.73	28,774.73
November .....	186	16,302.45	841.65	497.70	424.00	18,065.80
December .....	257	19,754.96	1,144.87	1,112.42	373.50	22,385.75
Total .....	3,242	\$284,129.93	\$3,104.19	\$8,734.74	\$11,477.64	\$307,446.50

## DIVISION OF APPOINTMENTS.

This division prepares for execution the documents necessary to make effective all appointments, transfers, resignations and other changes in the personal service and keeps the records of such changes and official history of the individual employees. The following is a statement showing the appointments, transfers, promotions, increases, reratings, suspensions, assignments, reinstatements, reassignments, vacancies caused by deaths and dismissals for the year ended December 31, 1915, separate by the classified service and the labor class:

	Competitive Class.	Labor Class.
Appointments—		
Permanent .....	25	109
Provisional .....	..	4
Temporary .....	5	2
Transfers—		
From others Bureaus.....	5	11
Interdepartmental Transfers .....	24	49
Temporary Assignments .....	13	..

	Competitive Class.	Labor Class.
Promotions .....	3	12
Increase allowed .....	20	4
Reinstated .....	2	11
Suspensions—		
Lack of work .....	13	39
End of temporary period .....	1	2
Other causes .....	20	17
Assignments .....	..	7
Reinstated .....	1	6
Reassigned .....	15	83
Resignations .....	6	10
Vacancies caused by deaths .....	3	34
Services ceased .....	1	..
Dismissals .....	13	2
Appointments rescinded .....	..	2
	170	404

### DIVISION OF CONTRACTS.

This division prepares the advertisements soliciting bids on contract work. It tabulates the bids received and the security deposits submitted therewith and keeps the records of the progress of work under all contracts.

During the year ended December 31, 1915, there were 151 contracts awarded, at a total cost of \$1,536,222.61, as per statement below:

#### CONTRACTS AWARDED DURING 1915.

Month.	No.	Appro- priation.	Special Revenue Bonds.	Corporate Stock Funds.	Special and Trust Funds.	Total.
January .....	16	.....	.....	\$65,975.21	.....	\$65,975.21
February .....	9	12,401.86	.....	17,660.30	.....	30,062.16
March .....	18	83,666.45	.....	77,174.98	.....	160,841.43
April .....	31	59,310.20	.....	207,020.03	.....	266,330.23
May .....	16	28,835.00	.....	126,894.83	.....	1,555,729.83
June .....	16	1,233.33	.....	111,264.70	.....	112,498.03
July .....	10	7,455.85	.....	228,364.05	.....	235,819.90
August .....	2	2,346.00	.....	1,062.45	.....	3,408.45
September .....	10	.....	.....	301,360.80	.....	301,360.80
October .....	15	9,240.00	.....	126,554.87	.....	135,794.87
November .....	2	.....	.....	58,945.00	.....	58,945.00
December .....	6	1,600.00	.....	6,086.70	\$1,770.00	9,456.70
	151	\$206,088.69	.....	\$1,328,363.92	\$1,770.00	\$1,536,222.61

### DIVISION OF MAILING AND FILING.

The nature of the work of this division is described by its title. In extent, during the year ended December 31, 1915, there were about 14,000 pieces of mail received and distributed in the administrative offices of the borough, which, after being properly noted, were returned for filing. The outgoing mail handled consisted of 18,008 letters (5,575 from the local boards and 12,433 for administrative bureaus).



**BUREAU OF HIGHWAYS**





## BUREAU OF HIGHWAYS.

The following is a summary of the forces employed and the work performed by the Bureau of Highways and of the number of permits issued and of the moneys received for issuing permits (including Bureau of Sewers) for the year ended December 31, 1915:

### FORCES EMPLOYED.

Ward Foremen .....	6
Foremen .....	27
Assistant Foremen .....	25
Asphalt Foremen .....	2
Ship Carpenters .....	2
Carpenters .....	2
Steam Roller Engineers.....	10
Foreman Painter .....	1
Painters .....	7
Drivers .....	6
Flagger .....	1
Pavers .....	23
Rammers .....	10
Stone Mason .....	1
Stationary Engineer .....	1
Stoker .....	1
Laborer, at \$4.....	1
Laborers, at \$3.50.....	17
Laborers, at \$3.....	18
Laborers, at \$2.50.....	355
Blacksmiths .....	2
Blacksmith's Helper .....	1
Striper .....	1
Bricklayer .....	1
Asphalt Workers, at \$3.....	12
Asphalt Workers, at \$2.50.....	10
Horses and Vehicles.....	78
Teams and Vehicles.....	64
Total .....	685

### WORK PERFORMED.

#### *Macadamized Streets.*

Square yards of macadam pavement repaired.....	394,638
Square yards of macadam pavement cleaned.....	800,867
Square yards of macadam pavement finished.....	869,480
Square yards of macadam pavement sanded.....	2,400
Square yards of macadam pavement tarred and oiled.....	712,715
Square yards of macadam pavement sprinkled.....	557,025
Square yards of dirt wings honed and cleaned.....	998,496
Lineal feet of gutters cleaned.....	740,312
Lineal feet of crosswalks relaid.....	3,266
Lineal feet of headers set.....	27,441
Lineal feet of curb reset.....	337
Square feet of flagstones relaid.....	444
Cubic yards of washouts filled in.....	643

### *Paved Streets.*

Square yards of granite pavement repaired.....	25,367
Square yards of asphalt pavement repaired.....	9,909
Square yards of cobble pavement repaired.....	2,592
Square yards of brick pavement repaired.....	13,024
Square yards of bithulithic pavement repaired.....	5,742
Square yards of wood block pavement repaired.....	2,107
Square yards of slag block pavement repaired.....	2,841
Square yards of pavement sanded.....	66,564
Square yards of asphaltic concrete pavement finished.....	49,704
Square feet of flagstones relaid.....	5,247
Lineal feet of gutters cleaned.....	354,242
Lineal feet of gutters paved.....	18,525
Lineal feet of headers set.....	46,470
Lineal feet of curb reset.....	5,906
Lineal feet of crosswalks relaid.....	442

### *Unimproved Streets.*

Square yards of roadway graded.....	610,491
Square yards of roadway crowned and repaired.....	1,791,218
Square yards of sidewalk graded.....	13,726
Square yards of roadway sprinkled.....	464,670
Square yards of roadway oiled.....	1,628,309
Lineal feet of gutters formed and cleaned.....	1,344,824
Lineal feet of roadway ploughed.....	180,069
Cubic yards of washouts filled in.....	1,960
Square yards of roadway honed and scraped.....	7,700
Lineal feet of guard rail erected.....	336

### *Culverts.*

Cubic yards of excavation.....	223
Lineal feet of pipe laid.....	2,920
Lineal feet of guard rail erected.....	58
Lineal feet of culverts cleaned.....	872
Cubic yards filling.....	18
B. M. feet of timber used.....	420

### *Viaducts.*

Lineal feet of guard rail repaired.....	1,287
B. M. feet of lumber used in repairs.....	51

### *Trees, Weeds and Snow.*

Square yards of weeds cut down and removed.....	106,455
Number of dead and dangerous trees cut and removed.....	11
Square yards of streets cleaned of snow.....	135,148
Lineal feet of gutters cleaned of snow.....	78,800
Lineal feet of crosswalks cleaned of snow.....	9,768

### *Cesspools and Catch Basins.*

Cubic yards of cesspools cleaned out.....	20
Number of cesspools built.....	6
Cubic yards of masonry built.....	29
Cubic yards of catch basins cleaned.....	18

# PERMITS ISSUED.

Water Connections .....	1,829
Water Repairs .....	476
Sewer Connections .....	1,829
Sewer Repairs .....	171
Private Sewers .....	83
Laying Sidewalks } .....	725
Relaying Sidewalks } .....	
Permanent Driveways } .....	
Storing Materials .....	544
Crosswalks .....	527
Street Vaults .....	331
Special Permits .....	426
Sign Structures .....	162
Temporary Roofs and Sheds.....	7
Bay Windows .....	2
Public Service Corporation Permits.....	6,388
	13,500

## MONEYS RECEIVED FOR ISSUING PERMITS.

### *For the Bureau of Highways.*

	1911.	1912.	1913.	1914.	1915.
First Quarter .....	\$5,458.28	\$6,864.86	\$7,290.45	\$6,014.44	\$14,345.16
Second Quarter .....	2,694.30	3,984.63	15,636.28	16,521.00	37,491.48
Third Quarter .....	3,931.46	5,358.59	10,831.70	14,561.99	29,142.19
Fourth Quarter .....	4,228.74	4,999.21	11,618.25	24,550.95	23,927.00
	\$16,312.78	\$21,207.29	\$45,376.68	\$61,648.38	\$104,905.83

### *For the Bureau of Sewers.*

	1911.	1912.	1913.	1914.	1915.
First Quarter .....	\$4,785.68	\$2,077.72	\$3,619.94	\$2,315.00	\$2,865.00
Second Quarter .....	6,343.41	5,304.51	6,642.28	4,599.57	4,920.00
Third Quarter .....	4,768.91	5,270.44	2,515.00	3,457.25	5,355.86
Fourth Quarter .....	7,685.79	5,837.87	3,612.60	3,170.00	5,384.12
	\$23,583.79	\$18,490.54	\$16,389.82	\$13,631.82	\$18,524.98



**BUREAU OF ENGINEERING  
CONSTRUCTION**





## REPORT OF THE BUREAU OF ENGINEERING CONSTRUCTION, DIVISION OF HIGHWAYS, FOR THE YEAR ENDED DECEMBER 31, 1915.

The Highway Division of the Bureau of Engineering Construction makes reports and recommendations on petitions presented by the property owners for local assessable improvements to the Local Board, and to the Board of Estimate and Apportionment, and after preliminary authorization is obtained from the Board of Estimate and Apportionment, surveys are made and plans and contracts are prepared, and the work of construction is supervised by this Division; assessment lists and maps for transmission to the Board of Assessors, so that the apportionment of the assessments can be levied, are also prepared.

Reports and contracts are prepared and the work of repaving streets is supervised by this Division, as well as the work of laying pavements under contract by property owners.

This Division also makes investigations and reports for the Commissioner of Public Works and the Superintendent of Highways on maintenance questions, and repaving, and prepares contracts for, and certifies to the quantities of materials used by the Bureau of Highways. Also sees to the maintenance of pavements by contractors and the restoration of all openings made in the same, as well as the repairing of sheet asphalt pavements out of maintenance. In addition, the restoration of pavements in streets which have been disturbed by sewer contractors are restored under the supervision of this Division; also the removal of encroachments.

### SUMMARY OF COMPLETED CONTRACTS DURING 1915.

32 contracts for regulating and grading streets were completed at a total cost of.....	\$203,493.83
11 contracts for original pavements on streets were completed at a total cost of.....	109,130.09
7 contracts for repaving streets were completed at a total cost of....	56,231.19
1 contract for rebuilding sea wall was completed at a total cost of...	14,439.16
9 contracts for furnishing and delivering materials were completed at a total cost of.....	122,216.85
2 contracts for repairing sheet asphalt pavements were completed at a total cost of.....	20,491.40
62 contracts completed.....	\$526,002.52
Contracts were prepared and bids were opened for 82 contracts, amounting to .....	\$718,115.94
57 assessment maps were completed and forwarded to the Board of Assessors, amounting to.....	372,001.44

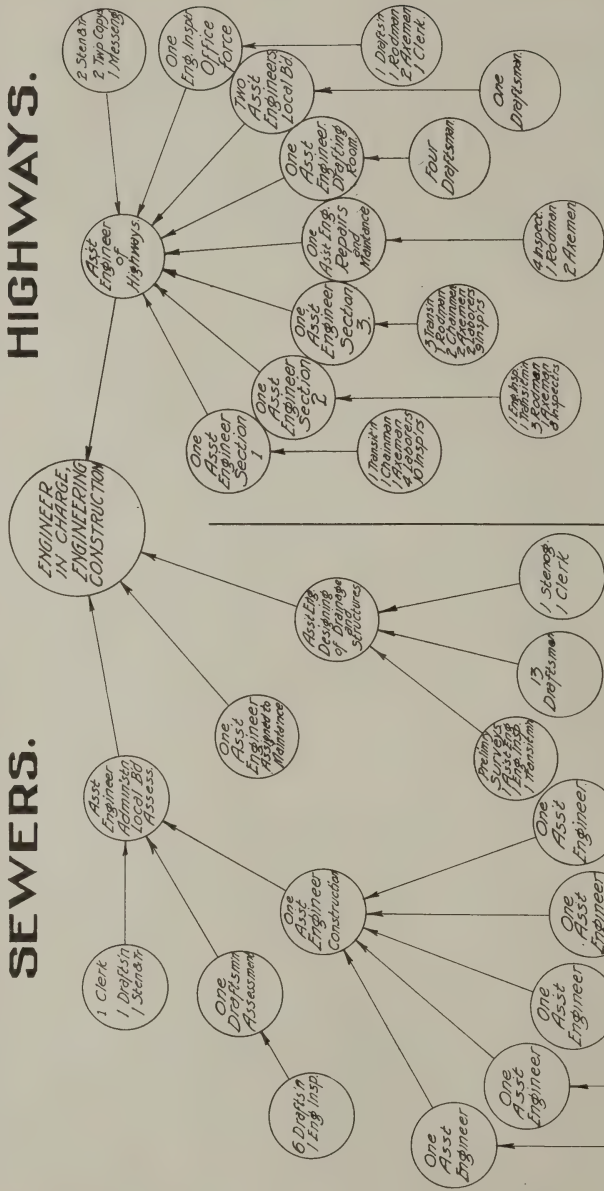
The borough is divided into three sections. Preliminary estimates, surveys and the supervision of construction work is done by the Assistant Engineer in charge of the section.

The first section comprises the First Ward; the second section comprises the northerly half of the Second Ward and the Third Ward; the third section comprises the southerly half of the Second Ward, Fourth and Fifth Wards.

The Assistant Engineer in charge certifies the payments for all work done under his supervision and the inspectors of regulating, grading and paving report directly to him.

Maps and drawings are prepared by the draftsman, under the supervision of an Assistant Engineer, and the clerical force handles all the correspondence and records in connection with contracts, office records, payrolls, etc.

# SEWERS.



Daily reports are received from the inspectors, showing the progress of the work and noting any unusual conditions that may occur as the work progresses; these reports also serve as their time sheets which are approved by the Assistant Engineer, to whom the men are assigned. Time sheets are also filed by all the other employees, from which the payrolls are prepared.

Efficiency reports are made out monthly and quarterly reports on personal service are made to be forwarded to the Municipal Civil Service Commission. Quarterly reports are also prepared for transmission to the Board of Estimate and Apportionment, showing the status of local improvements.

THE FOLLOWING CONTRACTS WERE COMPLETED DURING THE YEAR ENDED DECEMBER 31, 1915.

*Character of Improvement, Location and Limits.*

	Amount.
Regulating, grading, etc., Hancock Street, Payntar Avenue to Freeman Avenue, First Ward.....	\$7,502.93
Regulating, grading, etc., Packard Street, Middleburg Avenue to Borden Avenue, First Ward.....	39,708.32
Regulating, grading, etc., Newtown Road, 13th Avenue to Jackson Avenue, First Ward .....	11,470.26
Regulating and grading Manly Street, Hunterspoint Avenue to Thomson Avenue, First Ward.....	2,931.85
Regulating and grading Creek Street, Borden Avenue to Hunterspoint Avenue, First Ward.....	1,443.15
Regulating and grading Thomson Avenue, Viaduct to Diagonal Street, First Ward .....	8,467.33
Regulating, grading, etc., Fourth Avenue, Jackson Avenue to Washington Avenue, First Ward.....	4,332.68
Regulating, grading, etc., Borden Avenue, Van Alst Avenue to Dutchkills Creek, First Ward.....	1,766.34
Flagging Franklin Street, Van Alst Avenue to Woolsey Avenue, First Ward .....	852.02
Regulating, grading, etc., 48th Street, Jackson Avenue to Astoria Avenue, Second Ward .....	4,713.27
Regulating, grading, etc., Cooper Street, Irving Avenue to Borough Line, Second Ward .....	284.62
Regulating, grading, etc., Sophie Street, Flushing Avenue to Nurge Street, Second Ward .....	141.77
Regulating, grading, etc., Hancock Avenue, Thomson Avenue to Greenpoint Avenue, Second Ward.....	2,346.10
Regulating, grading, etc., Britton Avenue, Broadway to Forley Avenue, Second Ward .....	2,704.33
Regulating, grading, etc., Alburts Avenue, Polk Avenue to Fillmore Avenue, Second Ward.....	1,766.83
Regulating, grading, etc., Clinton Avenue, Clermont Avenue to Broad Street, Second Ward.....	9,763.55
Regulating, grading, etc., Ithaca Street, Pettit Place to Britton Avenue, Second Ward .....	1,093.53
Regulating, grading, etc., Decatur Street, B. B. Line to Cypress Avenue, Second Ward .....	3,524.10
Regulating, grading, etc., Ditmars Avenue, Astoria Avenue to Frigate Street, Second Ward.....	43,194.13
Flagging 46th Street, Jackson Avenue to Fillmore Avenue, Second Ward.	973.24
Flagging Myrtle Avenue, B. B. Line to McCombs Place, Second Ward...	5,504.76

	Amount.
Regulating, grading, etc., Custer Street, Bayreuth Street to Sanford Avenue, Third Ward.....	2,193.38
Regulating, grading, etc., Union Street, Sanford Avenue to Beddard Street, Third Ward.....	204.13
Flagging Murray Street, Broadway to Mitchell Avenue, Third Ward.....	1,901.71
Regulating, grading, etc., Jamaica Avenue, Shaw Avenue to Snedeker Avenue, Fourth Ward.....	954.11
Regulating, grading, etc., Napier Avenue, Chichester Avenue to Jerome Avenue, Fourth Ward.....	1,563.65
Regulating, grading, etc., Liberty Avenue, B. B. Line to Walker Avenue, Fourth Ward .....	18,605.99
Regulating, grading, etc., North Morris Avenue, Fulton Street to Jamaica Avenue, Fourth Ward.....	4,251.08
Regulating, grading, etc., Liberty Avenue, Walker Avenue to Ocean Avenue, Fourth Ward.....	4,009.86
Regulating, grading, etc., Chichester Avenue, Van Wyck Avenue to Baker Avenue, Fourth Ward.....	1,511.17
Regulating, grading, etc., Sutphin Road, Jamaica Avenue to Lambertville Avenue, Fourth Ward.....	12,969.74
Flagging Harvard Avenue, Fulton Street to Hillside Avenue, Fourth Ward .....	844.90
	<hr/> \$203,493.83
Paving Harris Avenue, Vernon Avenue to Crescent Street, First Ward..	\$48,337.56
Paving North Henry Street, Flushing Avenue to Newtown Avenue, First Ward .....	3,113.49
Paving Sunswick Street, Wilbur Avenue to Paynter Avenue, First Ward.	5,744.44
Paving Hopkins Avenue, Grand Avenue to Main Street, First Ward....	8,082.75
Paving 11th Avenue, Grand Avenue to Newtown Road, First Ward.....	2,838.67
Paving 12th Avenue, Grand Avenue to Jamaica Avenue, First Ward.....	5,439.58
Paving South Washington Place, Academy Street to Jackson Avenue, First Ward .....	4,148.88
Paving Freeman Avenue, Jackson Avenue to Crescent Street, First Ward	17,183.42
Paving Putnam Avenue, Forest Avenue to Buchman Avenue, Second Ward .....	4,369.19
Paving Stephen Street, Wyckoff Avenue to Seneca Avenue, Second Ward	6,398.36
Paving Hughes Street, Doscher Avenue to Buchman Avenue, Second Ward .....	3,473.75
	<hr/> \$109,130.09
Repaving Henry Street, Jackson Avenue to Prospect Street, First Ward.	\$3,261.86
Repaving Prospect Street, Harris Avenue to South Jane Street, First Ward .....	5,392.69
Repaving Harris Avenue, Crescent Street to Prospect Street, First Ward	5,164.91
Repaving Ralph Street, B. B. Line to Decatur Street, Second Ward.....	9,601.21
Repaving First Street, First Avenue to Third Avenue, Third Ward.....	4,170.44
Repaving College Point Causeway, Mill Creek to 3,100 feet north, Third Ward .....	23,875.35
Repaving 14th Street, 7th Avenue to 8th Avenue, Third Ward.....	4,764.73
	<hr/> \$56,231.19



	Amount.
Rebuilding sea wall, Boulevard, Jamaica Avenue to 200 feet north, First Ward .....	\$14,439.16
Furnishing and delivering 2,000 cubic yards of stone.....	\$4,830.06
Furnishing and delivering 25,000 cubic yards of broken stone.....	46,955.41
Furnishing and delivering 10,000 cubic yards of sand.....	10,334.14
Furnishing and delivering 10,000 cubic yards of sand.....	9,468.62
Furnishing and delivering 400 tons asphaltic cement.....	6,696.37
Furnishing and delivering 5,000 cubic yards of gravel.....	6,966.33
Furnishing and delivering 20,000 gallons bituminous road surfacing material in barrels .....	11,418.05
Furnishing and delivering 100,000 gallons bituminous road surfacing material spread on road.....	
Furnishing and delivering 160,000 gallons bituminous material.....	7,560.00
Furnishing and delivering 600,000 gallons light road oil.....	17,987.87
	\$122,216.85
Repairs, sheet asphalt pavements, Second and Fourth Wards.....	\$10,388.19
Repairs, sheet asphalt pavements, First and Third Wards.....	10,103.21
	\$20,491.40

PRIVATE CONTRACTS COMPLETED DURING THE YEAR 1915.

Location and Limits.	Width.	Length.	Square Yards.	
Cypress Avenue, Madison to 100 feet west of Woodbine Street.....	35	360	1,200	Sheet Asphalt
Cypress Avenue, Palmetto to Gates Avenue .....	35	200	780	Sheet Asphalt
Gates Avenue, Fresh Pond Road to Doubleday Street .....	30	600	1,000	Sheet Asphalt
Hancock Street, Borough Line to 220 feet easterly .....	30	220	735	Sheet Asphalt
Hayes Avenue, 24th to 25th Streets.	56	250	1,555	Sheet Asphalt
Mead Street, Myrtle Avenue to Central Avenue .....	30	674	2,250	Sheet Asphalt
Palmetto Street, Fresh Pond Road to Doubleday Street.....	30	553	1,845	Sheet Asphalt
25th Street, Polk Avenue to Fillmore Avenue .....	30	650	2,170	Sheet Asphalt
Woodbine Street, Cypress Avenue to Seneca Avenue .....	30	460	1,535	Sheet Asphalt
Meadow Street, Thomson Avenue to Nott Avenue .....	30	1,100	3,666	Imp. Gr.
Orton Street, Thomson Avenue to Nott Avenue .....	30	630	2,100	Imp. Gr.
Queens Place, Meadow Street to Nott Avenue .....	30	575	1,916	Imp. Gr.
Review Avenue, Borden Avenue to Pearsall Street .....	30	1,300	4,335	Second Hand Granite

ASSESSMENT MAPS FORWARDED TO BOARD OF ASSESSORS DURING THE YEAR ENDED  
DECEMBER 31, 1915.

<i>Location and Limits.</i>	<i>Amount.</i>
Regulating and grading Alburdis Avenue, Polk Avenue to Fillmore Avenue, Second Ward.....	\$2,106.27
Regulating and grading Boulevard, Washington Avenue to Broadway, First Ward .....	8,767.41
Laying sidewalks, Culver Place, Hunt Street to Lake Street, Second Ward .....	6,301.74
Laying sidewalks, Hunt Place, Louona Avenue to Alburdis Street, Second Ward .....	
Laying sidewalks, Lake Street, Louona Avenue to Alburdis Street, Second Ward .....	
Laying sidewalks, Central Avenue, Sanford Avenue to Madison Street, Third Ward .....	538.08
Regulating, grading and curbing Crescent Street, Newtown Avenue to Flushing Avenue, First Ward.....	3,198.69
Regulating and grading Cornelia Street, Forest Avenue to Anthon Avenue, Second Ward.....	1,847.64
Regulating and grading Creek Street, Borden Avenue to Hunterspoint Avenue, First Ward.....	1,734.97
Regulating and grading Cooper Street, Irving Avenue to B. B. Line, Second Ward .....	320.44
Regulating and grading Chichester Avenue, Van Wyck Avenue to Baker Avenue, Fourth Ward.....	1,991.33
Regulating and grading Custer Street, Bayreuth Street to Sanford Avenue, Third Ward .....	2,507.84
Paving Ditmars Avenue, 2d Avenue to Crescent Street, First Ward....	12,117.93
Regulating, grading, etc., 11th Avenue, Grand Avenue to Newtown Road, First Ward .....	4,844.44
Paving 11th Avenue, Wilson Avenue to Flushing Avenue, First Ward....	3,786.13
Paving 11th Avenue, Grand Avenue to Newtown Road, First Ward.....	3,243.94
Regulating and grading 1st Street, Woodside Avenue to Riker Avenue, Second Ward .....	1,855.06
Regulating and grading Fairview Avenue, Linden Street to Greene Avenue, Second Ward.....	2,446.54
Regulating and grading 48th Street, Jackson Avenue to Astoria Avenue, Second Ward .....	5,492.52
Fence, Fairview Avenue and Bleecker Street, Second Ward.....	177.12
Laying sidewalks, Franklin Street, Van Alst Avenue to Woolsey Street, First Ward .....	981.19
Laying sidewalks, 46th Street, Jackson Avenue to Fillmore Avenue, Second Ward .....	1,162.22
Regulating and grading Guion Avenue, Jamaica Avenue to Fulton Street, Fourth Ward .....	344.00
Regulating and grading Green Avenue, Grandview Avenue to Forest Avenue, Second Ward.....	1,432.88
Regulating and grading Grand Street, Long Island Railroad to Old Flushing Avenue, Second Ward.....	11,794.86
Paving Grand Avenue, Steinway Avenue to 18th Avenue, 17th Avenue to 18th Avenue, First Ward.....	20,461.75
Fence, Greene Avenue, Seneca Avenue to Cypress Avenue, Second Ward.	154.28
Laying sidewalks, Hillside Avenue, North Curtis Avenue to Spruce Street, Fourth Ward .....	924.08

Regulating and grading Harman Street, Grandview Avenue to Forest Avenue, Second Ward.....	Amount. 2,951.50
Regulating and grading Hughes Street, Fresh Pond Road to Fremont Street, Second Ward.....	2,362.94
Regulating and grading Harvard Avenue, Fulton Street to Hillside Avenue, Fourth Ward.....	3,447.30
Paving Hughes Street, Doscher Avenue to Buchman Avenue, Second Ward .....	3,977.17
Paving Harris Avenue, Vernon Avenue to Crescent Street, First Ward..	53,286.63
Paving Hopkins Avenue, Grand Avenue to Main Street, First Ward....	9,013.53
Regulating and grading Hancock Street, Payntar Avenue to Freeman Avenue, First Ward.....	8,624.32
Regulating and grading Jacobson Street, Warner Street to Elmhurst Avenue, Second Ward.....	1,222.45
Regulating and grading Jefferson Avenue, Borough Line to Cypress Avenue, Second Ward .....	3,421.30
Regulating and grading Kelly Avenue, Woodside Avenue to Anderson Avenue, Second Ward.....	10,505.64
Regulating and grading Madison Street, Wyckoff Avenue to Myrtle Avenue, Second Ward.....	4,406.91
Regulating and grading Madison Street, Myrtle Avenue to Cypress Avenue, Second Ward.....	1,211.09
Regulating and grading Manly Street, Hunterspoint Avenue to Thomson Avenue, First Ward.....	3,342.35
Laying sidewalks, Murray Street, Broadway to Mitchell Avenue; Bathgate Street, Mitchell to Bayside Avenues, Third Ward.....	2,216.46
Paving New York Avenue, South Street to Oak Street, Fourth Ward...	22,524.34
Regulating and grading Nugget Place, Fulton Street to Rockaway Boulevard, Fourth Ward.....	1,626.14
Regulating and grading Putnam Avenue, Forest Avenue to Buchman Avenue, Second Ward.....	2,371.13
Paving North Henry Street, Flushing Avenue to Newtown Road, First Ward .....	3,888.84
Regulating and grading Newtown Road, 13th Avenue to Jackson Avenue, First Ward .....	13,276.96
Regulating and grading Packard Street, Middleburg Avenue to Borden Avenue, First Ward.....	43,839.39
Regulating and grading Ridge Street, Boulevard to Ely Avenue, First Ward .....	14,001.16
Regulating and grading Riker Avenue, Woodside Avenue to Kelly Avenue, Second Ward .....	11,667.74
Regulating and grading Sound Street, Purdy Street to Potter Avenue, First Ward .....	1,809.14
Regulating and grading Sedgewick Street, Catalpa Avenue to Hughes Street, Second Ward.....	815.10
Paving Second Avenue, Potter Avenue to Ditmars Avenue, First Ward..	18,746.18
Paving Sunswick Street, Wilbur Avenue to Payntar Avenue, First Ward	6,276.21
Paving South Washington Place, Academy Street to Jackson Avenue, First Ward .....	4,725.94
Paving Stephen Street, Wyckoff Avenue to Seneca Avenue, Second Ward	7,361.88
Laying sidewalks, Sophie Street, Flushing Avenue to Nurge Street, Second Ward .....	182.56
Paving 12th Avenue, Grand Avenue to Jamaica Avenue, Fourth Ward...	5,910.91
Regulating and grading Weil Place, Flushing Avenue to North Washington Place, First Ward.....	3,454.88
	<hr/> \$372,001.44

REPAIRS MADE DURING 1915 UNDER THE SUPERVISION OF ENGINEERING AND CONSTRUCTION, HIGHWAYS, ON ACCOUNT OF WEAR AND TEAR, AND PLUMBERS AND CORPORATION OPENINGS.

<i>Pavements Out of Maintenance.</i>		Sq. Yds.
Sheet asphalt repaired outside of R. R. area.....		11,603
Sheet asphalt repaired inside of R. R. area.....		4,861
		<hr/>
		16,464
Sheet asphalt plumbers and corporation openings restored.....		3,537
		<hr/>
		20,001
Macadam restored over water and sewer trenches.....		1,231
Wood block restored over water and sewer trenches.....		560
		<hr/>

21,792

<i>Pavements Under Maintenance.</i>		Sq. Yds.
Asphalt concrete repaired.....		18,116
Asphalt block repaired .....		2,119
Sheet asphalt repaired .....		127
Granite block repaired .....		786
Wood block repaired.....		62
		<hr/>

21,210

<i>Plumbers and Corporation Openings Restored.</i>		Sq. Yds.
Asphalt block .....		2,821
Sheet asphalt .....		2,257
Asphalt concrete .....		2,631
Granite block .....		611
Wood block .....		599
		<hr/>

8,919

30,129

Sq. Yds.

21,774

30,129

Total repairs..... 51,903

STATEMENT OF WORK DONE BY THIS DIVISION DURING THE YEAR ENDED DECEMBER 31, 1915.

94,463	cu. yds. of earth excavated.
3,729	cu. yds. of rock excavated.
160,260.4	cu. yds. of embankment.
4,415.5	lin. ft. of old bluestone curb, reset.
13,058.39	cu. yds. of concrete foundation, laid.
1,323	lin. ft. of 12-inch vitrified pipe.
120	lin. ft. of 12-inch cast-iron pipe.
6,028.25	cu. yds. of sand, furnished on contract.
250.05	tons of asphaltic cement, furnished on contract.
15,656	cu. yds. of broken stone, furnished on contract.
11,107.6	sq. yds. of asphalt pavement, repaired.
469.2	cu. yds. of concrete placed in sea wall.

642.6 cu. yds. of rubble masonry, placed in sea wall.  
 39,415.55 lin. ft. of new bluestone curb, set.  
 37,929.38 lin. ft. of new concrete curb, set.  
 128,335.35 sq. ft. of new flagstone, laid.  
 248,440.07 sq. ft. of new cement sidewalk, laid.  
 3,914.36 sq. ft. of old bluestone flag, relaid.  
 8,037.43 sq. ft. of new crosswalks, laid.  
 1,244.5 sq. ft. of old crosswalks, relaid.  
 36,963.81 sq. yds. of improved granite block pavement, laid.  
 688.7 sq. yds. of stone gutters, furnished and laid.  
 3,400 lin. ft. of timber pile, placed for bulkhead.  
 30 M ft. of spruce timber, placed for bulkhead.  
 2,358 lin. ft. of guard rail, erected.  
 1,200 lin. ft. of concrete curb, reset.  
 1,118 sq. yds. of wood block pavement, laid.  
 14,131.13 sq. yds. of asphalt block pavement, laid.  
 28,058 sq. yds. of sheet asphalt pavement, laid.  
 756.4 sq. yds. of old granite block pavement, laid.  
 1 catch basin, adjusted.  
 6 M ft. of spruce timber drains, in place.  
 198.4 cu. yds. of broken stone, placed for crosswalks.  
 23,612 gallons of oil, spread on road.  
 4,197.5 sq. yds. of old block, taken up, purchased and removed by contractor.  
 334.2 tons of old block, taken up and loaded on cars by contractor.  
 1 seepage basin built.  
 2,591.6 sq. yds. of asphaltic concrete pavement, laid.  
 2 new catch basins.  
 168,000 gallons of bituminous material, furnished on contract.  
 626,755 gallons of light road oil furnished on contract.  
 434.4 sq. yds. of rip rap, in place.  
 85.3 sq. yds. of cobble gutters, relaid.

REPORT, SHOWING THE AMOUNT OF PAVEMENTS LAID IN THE BOROUGH OF QUEENS,  
DURING THE YEAR 1915, AND THE AMOUNT IN USE DECEMBER 31, 1915.

Kind of Pavement.	Pavements Laid in 1915.				In Use December 31st, 1915.	
	New.		Repaved.		Miles.	Sq. Yds.
	Miles.	Sq. Yds.	Miles.	Sq. Yds.		
Asphaltic concrete ....	5.06	56,225	.....	.....	97.19	1,025,570
Asphalt sheet .....	2.05	36,264	.....	.....	29.86	493,840
Asphalt block .....	0.67	14,130	.....	.....	23.80	483,539
Wood block .....	.....	.....	.....	.....	9.30	170,216
Brick Vit. ....	.....	.....	.....	.....	11.00	182,368
Iron slag .....	.....	.....	.....	.....	0.22	2,200
Impr. granite block....	1.70	29,864	.....	.....	12.13	198,123
Granite block .....	0.25	4,335	.....	.....	25.25	426,421
Belgian block .....	.....	.....	.....	.....	2.94	55,063
Tarvia or Bit. Mac....	8.00	92,730	.....	.....	45.17	527,213
Macadam and gravel..	.....	.....	15.00	158,200	203.81	2,503,920
Totals .....	17.73	233,548	15.00	158,200	460.67	6,068,473

The above table includes:  
 4.88 miles asphaltic concrete.  
 8.00 miles tarvia.  
 17.00 miles macadam (water bound) resurfaced.  
 Laid by departmental labor.

REPORT OF THE WORK PERFORMED BY THE BUREAU OF ENGINEER-  
ING CONSTRUCTION, DIVISION OF SEWERS, DURING THE  
YEAR ENDED DECEMBER 31, 1915.

313.	lin. ft. 11 ft. 0 in. x 7 ft. 0 in. reinforced concrete sewer, includ- ing spurs .....	\$11,111.50
11.94	lin. ft. 9 ft. 0 in. reinforced concrete sewer.....	565.24
3.05	lin. ft. 8 ft. 6 in. reinforced concrete sewer.....	52.55
2.00	lin. ft. 8 ft. 0 in. reinforced concrete sewer.....	43.09
184.24	lin. ft. 7 ft. 6 in. reinforced concrete sewer.....	2,763.60
409.32	lin. ft. 7 ft. 0 in. reinforced concrete sewer.....	5,772.25
1,180.	lin. ft. 5 ft. 6 in. reinforced concrete sewer.....	13,452.00
575.	lin. ft. 5 ft. 0 in. reinforced concrete sewer.....	6,325.00
1,149.	lin. ft. 4 ft. 9 in. reinforced concrete sewer.....	15,046.20
1,899.	lin. ft. 4 ft. 6 in. reinforced concrete sewer.....	17,219.79
1,350.	lin. ft. 4 ft. 3 in. reinforced concrete sewer.....	10,764.00
2,027.70	lin. ft. 4 in. reinforced concrete sewer.....	13,735.12
598.5	lin. ft. 3 ft. 6 in. x 2 ft. 4 in. egg-shaped concrete sewer.....	5,985.00
2,797.16	lin. ft. 3 ft. 9 in. concrete sewer.....	16,296.17
3,469.21	lin. ft. 3 ft. 6 in. concrete sewer.....	23,614.92
1,486.22	lin. ft. 3 ft. 3 in. concrete sewer.....	8,655.93
2,664.99	lin. ft. 3 ft. 0 in. concrete sewer.....	18,080.80
366.71	lin. ft. 2 ft. 9 in. concrete sewer.....	1,729.28
2,281.85	lin. ft. 2 ft. 6 in. concrete sewer.....	10,606.26
6,498.51	lin. ft. 24 in. vit. salt-glazed pipe sewer.....	22,102.18
565.25	lin. ft. 22 in. vit. salt-glazed pipe sewer.....	1,698.75
816.05	lin. ft. 20 in. vit. salt-glazed pipe sewer.....	2,620.28
4,403.61	lin. ft. 18 in. vit. salt-glazed pipe sewer.....	10,136.93
4,452.53	lin. ft. 15 in. vit. salt-glazed pipe sewer.....	8,094.52
38,231.16	lin. ft. 12 in. vit. salt-glazed pipe sewer.....	53,218.36
25,031.	lin. ft. 6 in. vit. salt-glazed pipe for house connection drains...	12,808.35
60.	lin. ft. 24 in. Nestable corrugated culvert pipe.....	120.00
4,048.50	lin. ft. 12 in. vitrified salt-glazed pipe for basin connections...	4,247.09
274.	lin. ft. 10 in. vitrified salt-glazed pipe for basin connections...	193.20
26.	lin. ft. 8 in. vitrified salt-glazed pipe for basin connections...	.....
207.	lin. ft. 16 in. cast iron pipe (Horse Brook Siphon).....	496.80
16,719.	lin. ft. piles.....	4,667.52
335.	lin. ft. risers for house connections.....	242.21
	13 ft. 9 in. x 8 ft. 0 in. cofferdam on reinforced concrete sewer.	22,422.00
52.	lin. ft. fill on 12 ft. 6 in. sewer on piles.....	1,560.00
172.	lin. ft. excavation on 10 ft. 6 in. x 8 ft. 6 in. reinforced concrete sewer .....	5,574.52
1,853.	lin. ft. excavation on 12 ft. 6 in. circular cast iron tunnel sewer.	94,503.00
1,204.	lin. ft. excavation on 11 ft. 0 in. circular cast iron tunnel sewer.	65,919.00
2,362.	lin. ft. excavation on 8 ft. 0 in. circular cast iron tunnel sewer.	59,994.80
262.	lin. ft. concrete on 10 ft. 6 in. x 8 ft. 6 in. reinforced concrete sewer .....	5,440.00
862.	lin. ft. cast iron segments delivered for 12 ft. 6 in. tunnel sewer.	41,376.00
360.	lin. ft. cast iron segments delivered for 11 ft. 0 in. tunnel sewer.	17,280.00
1,540.	lin. ft. cast iron segments delivered for 8 ft. 0 in. tunnel sewer.	36,860.00
1,467.	lin. ft. cast iron segments set for 12 ft. 6 in. tunnel sewer.....	16,404.00
1,140.	lin. ft. cast iron segments set for 11 ft. 0 in. tunnel sewer.....	13,680.00



1,664.	lin. ft. cast iron segments set for 8 ft. 0 in. tunnel sewer.....	9,996.00
1,234.	lin. ft. grout on 12 ft. 6 in. tunnel sewer.....	4,936.00
779.	lin. ft. grout on 11 ft. 0 in. tunnel sewer.....	3,116.00
1,508.	lin. ft. grout on 8 ft. 0 in. tunnel sewer.....	4,524.00
172.	lin. ft. R. R. Co. 10 ft. 6 in. x 8 ft. 6 in. twin reinforced concrete sewer .....	961.48
100.	lin. ft. earth channel approaches (Horse Brook Siphon).....	125.00
135.	lin. ft. reinforced concrete invert (Horse Brook Siphon).....	344.25
26.	cu. yds. excavation, earth, mud, etc. (Horse Brook Siphon)....	39.00
1,506.	cu. yds. displaced material (Perry Ave. cont.).....	527.10
778.81	cu. yds. extra concrete.....	5,017.03
1,414.18	cu. yds. rock.....	4,068.95
1.	crossing under tracks of L. I. R. R. (Brevoort Street Contract) .	.01
1.	crossing under tracks of L. I. R. R. (Irving Avenue Contract) .	115.00
4,360.99	ft. B. M. timber for bracing and sheeting.....	93.31
65,707.	ft. B. M. timber for foundation.....	2,260.80
83,749.	lbs. steel for reinforcement.....	2,617.73
50%	granite, Kingsland Avenue Shaft.....	155.00
10.	risers for house connections.....	50.00
1.	manhole on concrete sewer.....	250.00
1.	special manhole .....	150.00
543.	manholes .....	24,193.00
137.	receiving basins .....	14,354.00
24.	double receiving basins.....	4,264.00
2.	park inlet basins.....	300.00
1.	18 in. x 12 in. double Y.....	15.00
1.	outlet, Harsell Street contract.....	500.00
1.	reinforced concrete culvert (Toledo) Street contract).....	650.00
2.	reinforced concrete siphon chambers, including manhole and wing walls (Horse Brook).....	700.00
1.	special chamber about 30 ft. west of Kossuth Place.....	772.00
5.	chambers .....	1,275.00
12.	junction chambers .....	2,559.00
5.	drop chambers .....	2,845.00
2.	cleaning shafts .....	140.00
55.	spurs on concrete sewers (Brevoort Street concrete).....	27.50
50.	spurs, 24 in. long on 5 ft. 6 in. R. C. sewer.....	.50
16.	spurs, 24 in. long on 4 ft. 6 in. R. C. sewer.....	16.00
34.	spurs, 24 in. long on 3 ft. 6 in. x 2 ft. 4 in. egg-shaped concrete sewer .....	34.00
4.	spurs, 24 in. long on 3 ft. 6 in. concrete sewer.....	1.60
36.	spurs, 24 in. long on 3 ft. 3 in. concrete sewer.....	11.90
46.	spurs, 24 in. long on 3 ft. 0 in. concrete sewer.....	10.58
7.	Epurs, 24 in. long on 2 ft. 9 in. concrete sewer.....	.07
70.	spurs, 24 in. long on 2 ft. 6 in. concrete sewer.....	24.04
196.	spurs on 24 in. vitrified salt-glazed pipe sewer.....	264.28
12.	spurs on 22 in. vitrified salt-glazed pipe sewer.....	.12
40.	spurs on 20 in. vitrified salt-glazed pipe sewer.....	36.20
139.	spurs on 18 in. vitrified salt-glazed pipe sewer.....	207.30
158.	spurs on 15 in. vitrified salt-glazed pipe sewer.....	148.65
1,644.	spurs on 12 in vitrified salt-glazed pipe sewer.....	2,471.93

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Total ..... \$778,646.54

The following contracts were completed during the year ended December 31, 1915:

	Cost.
<i>Madison Street</i> , from Myrtle Avenue to Wyckoff Avenue; <i>Wyckoff Avenue</i> , from Madison Street to Halsey Street; <i>Halsey Street</i> , from Wyckoff Avenue to Irving Avenue, Second Ward.....	\$34,815.77
<i>Ridge Street</i> , from the Boulevard to Van Alst Avenue; <i>Court Street</i> , from Ridge Street to Broadway, First Ward; <i>Hopkins Avenue</i> , from Ridge Street to Broadway, First Ward; <i>Sherman Street</i> , from Ridge Street to Broadway, First Ward.....	8,781.93
<i>Lawn Avenue</i> , from Jerome Avenue to Beaufort Avenue, etc., Fourth Ward .....	1,398.15
<i>Newtown Road</i> , from 13th Avenue to 18th Avenue, First Ward.....	2,900.94
<i>Wilbur Avenue</i> , from William Street to Ely Avenue, First Ward.....	383.50
Reconstruction and repairing siphon, etc., under Broadway, Elmhurst, known as Horse Brook Siphon, Second Ward.....	1,850.05
<i>Ashland Street</i> , from Hamilton Avenue to Myrtle Avenue; <i>Stoothoff Avenue</i> , from Bessemer Street to Crown, 215 feet south of Ashland Street; <i>Cedar Avenue</i> , from Ashland Street to St. Ann's Avenue; <i>Chestnut Street</i> , from Ashland Street to St. Ann's Avenue, Fourth Ward .....	5,991.62
<i>Fosdick Avenue</i> , from Central Avenue to Myrtle Avenue, Second Ward..	1,769.04
<i>Sherman Street</i> , from Payntar Avenue to Crown, about 330 feet north of Payntar Avenue.....	865.38
<i>Atlantic Avenue</i> , North Side, from Stoothoff Avenue to Greenwood Avenue; <i>Greenwood Avenue</i> , from Atlantic Avenue, North Side, to the Crown, about 650 feet north of Atlantic Avenue, Fourth Ward..	3,994.14
<i>Maple Street</i> and <i>Hickory Street</i> , from Freedom Avenue to the New York and Rockaway Beach Railroad, Fourth Ward.....	1,484.84
<i>Beaufort Avenue</i> , from Briggs Avenue to Lefferts Avenue, Fourth Ward.	682.14
<i>Birch Street</i> , from Jamaica Avenue to Hillside Avenue, Fourth Ward...	1,371.87
<i>Hallett Street</i> , from Hoyt Avenue to Woolsey Avenue, First Ward.....	1,662.70
<i>Bayreuth Street</i> , from Murray Street to Wentworth Avenue, Third Ward	1,093.56
<i>Walnut Street</i> , from Ashland Street to St. Ann's (Division) Avenue, and in <i>St. Ann's Avenue</i> , from Walnut Street to Church Street,, Fourth Ward .....	4,296.13
<i>Forbes (18th) Street</i> , from Queens Avenue to Franconia Avenue; <i>Gerold (19th) Street</i> , from Queens Avenue to Franconia Avenue; <i>Franconia Avenue</i> , from Forbes Street to Gerold Street.....	4,592.84
Temporary drain through the property of the <i>Malba Estates Corporation</i> from the end of the existing sewer at Fifth Avenue to Powell's Cove, Third Ward .....	29,492.49
<i>De Kalb Avenue</i> , from Seneca Avenue to Onderdonk Avenue, Second Ward .....	696 60
<i>Atlantic Avenue</i> , north side, from Stoothoff Avenue to a point 112 feet east of Lefferts Avenue; <i>Fulton Street</i> , from Stoothoff Avenue to Church Street; <i>Hamilton Avenue</i> , from Atlantic Avenue, north side, to a point about 200 feet north of Fulton Street; <i>Walnut Street</i> , from Atlantic Avenue, north side, to a point about 200 feet north of Fulton Street; <i>Briggs Avenue</i> , from Atlantic Avenue, north side, to a point about 295 feet north of Fulton Street; <i>Church Street</i> , from Atlantic Avenue, north side, to Fulton Street; <i>Lefferts Avenue</i> , from Atlantic Avenue, north side, to a point about 200 feet south of Fulton Street .....	15,986.46

Cost.

<i>Lefferts Avenue</i> , from Jamaica Avenue to Metropolitan Avenue, Fourth Ward .....	6,792.24
<i>Church Street</i> , from Hillside Avenue to St. Ann's Avenue, Fourth Ward..	4,248.62
<i>Payntar Avenue</i> , from Hamilton Street to Sherman Street; <i>Boulevard</i> , from Payntar Avenue to crown north of Payntar Avenue, First Ward	6,041.15
<i>Forest Avenue</i> , from Myrtle Avenue to Halleck Avenue, Second Ward...	456.51
<i>Orchard Street</i> , from Jackson Avenue to crown about 385 feet southerly..	1,702.94
<i>Britton Avenue</i> , from Broadway to Ithaca Street; <i>Ketcham Street</i> , from Britton Avenue to Pettit Place, Second Ward.....	4,429.59
<i>Guion Avenue</i> , from Jerome Avenue to Beaufort Avenue; <i>Beaufort Avenue</i> , from Guion Avenue to Napier Avenue; <i>Napier Avenue</i> , from Beaufort Avenue to Jerome Avenue, Fourth Ward.....	6,500.79
House connection drains (where not already laid) in <i>Payntar Avenue</i> , from Sherman Street to Crescent Street, and receiving basins at the four corners of Van Alst Avenue and Payntar Avenue, First Ward..	596.00
<i>Grove Street</i> , from Seneca (Covert) Avenue to Fairview; <i>Fairview Avenue</i> , from Linden Street to Ralph Street, Second Ward.....	8,021.21
<i>Van Alst Avenue</i> , from Broadway to Ridge Street; <i>Ridge Street</i> , from Van Alst Avenue to Ely Avenue, First Ward.....	3,363.49
<i>Steinway Avenue</i> , from Jackson Avenue to Washington Avenue, First Ward .....	1,162.80
<i>Central Avenue</i> , from Proctor Street to Myrtle Avenue, Second Ward....	102,008.02
<i>Fulton Street</i> , from Stoothoff Avenue to Bedford Avenue; <i>Greenwood Avenue</i> , from Jamaica Avenue to a point about 640 feet north of Atlantic Avenue; <i>Chestnut Street</i> , from Atlantic Avenue to Jamaica Avenue; <i>Scott Street</i> , from Chestnut Street to Stoothoff Avenue, Fourth Ward .....	13,832.64
<i>Harsell Street</i> , from the East River to Hamilton Street; <i>Hamilton Street</i> , from Harsell Street to Payntar Avenue, First Ward.....	22,268.32
<i>Toledo Street</i> , from the Queens Boulevard to Corona Avenue; with temporary dry weather flow connections at <i>Maurice Avenue</i> , <i>Horton Street</i> and <i>Ivy Street</i> , Second Ward.....	20,225.32
<i>Hancock Street</i> , from crown north of Pierce Avenue to Vernon Avenue; <i>Graham Avenue</i> , from Hancock Street to The Boulevard; <i>Sanford Street</i> , from Hancock Street to The Boulevard, First Ward.....	9,632.32
<i>Brevoort Street</i> , from Metropolitan Avenue to Cuthbert Place; <i>Cuthbert Place</i> , from Brevoort Street to Lefferts Avenue; <i>Lefferts Avenue</i> , from Cuthbert Place to Richmond Hill Avenue; <i>Grenfell Street</i> , from Richmond Hill Avenue to Audley Street; <i>Audley Street</i> , from Grenfell Street to property of the Long Island Railroad and across the property of the Long Island Railroad from the end of Audley Street to Austin Street, Fourth Ward.....	26,134.52
<i>Smart Avenue</i> , from Queens Avenue to Narcissus Street; <i>Narcissus Street</i> , from Smart Avenue to Bowne Avenue; <i>Bowne Avenue</i> , from Narcissus Street to Oak Avenue, Third Ward.....	5,834.71
<i>Cedar Avenue</i> , from Beaufort Avenue to Chichester Avenue.....	795.35
<i>Briggs Avenue</i> (Park Street), from Jamaica Avenue to Myrtle Avenue; <i>Myrtle Avenue</i> , from Park Street to Hamilton Avenue, Fourth Ward	1,907.64

RECEIVING BASINS.

On the easterly and westerly sides of Purvis Street and Thompson Avenue, First Ward.....	188.70
On the southwest corner of Dill Place and Charlotte Place, Second Ward	160.00

	Cost.
On the southerly and westerly corners of Schurz Avenue and Ditmars Avenue, Second Ward.....	287.00
On <i>Flushing Avenue</i> --On the southerly corner of Caspian Street, on the easterly and southerly corners of Zeidler street, on the east corner of Emma street, on the easterly corner of Sophie street, and on the easterly corner of Martin Street, Second Ward.....	979.10
On <i>Woolsey Avenue</i> --On the northeasterly and easterly corners of Seventh Avenue, on the northerly and easterly corners of Sixth Avenue and on the easterly corner of Park Place, First Ward.....	522.45
On the easterly corner of Twelfth Avenue and Graham Avenue.....	123.50
On the easterly corner of Thomson Avenue and Meadow Street and on the northerly side of Meadow Street about 144 feet east of Thomson Avenue, First Ward.....	511.90
Sewer basin on the southeast corner of Myrtle Avenue and Decatur Street, Second Ward.....	155.00
Total.....	\$372,991.98

The following assessment maps and assessment lists were completed and forwarded to the Board of Assessors:

	Cost.
Birch Street, from Liberty Avenue to Jerome Avenue; Spruce Street, from Liberty Avenue to Jerome Avenue, etc., Fourth Ward.....	\$18,009.63
Goodrich Street, from Flushing Avenue to Hoyt Avenue, First Ward....	1,500.91
Kimball Avenue, from Freedom Avenue to Hatch Avenue; Ocean Avenue, west side, from Kimball Avenue to Jerome Avenue, etc., Fourth Ward	15,368.89
Spruce Street, from Jamaica Avenue to St. Ann's Avenue, and in St. Ann's Avenue, from Birch Street to Brevoort Street, Fourth Ward...	9,276.51
Chichester Avenue, from Lefferts Avenue to Maure Avenue; Birch Street, from Atlantic Avenue to Chichester Avenue, etc., Fourth Ward.....	23,797.78
Sherman Street, from Camelia Street to Elm Street, and from Temple Street to Grand Avenue, etc., First Ward.....	3,371.85
Chichester Avenue, from Freedom Avenue to Ocean Avenue, east side, and in Lawn Avenue, from Chichester Avenue to Beaufort Avenue, Fourth Ward .....	2,989.67
Parsons Avenue, from Queens Avenue to Oak Avenue, Third } Ward; Parsons Avenue, from Queens Avenue to Beech } combined Street, Third Ward..... } assessment	12,836.37 20,104.06
Forty-third Street, pierhead line to bulkhead line; a sewer and appurtenances in Forty-third Street, from the bulkhead line of Flushing Bay to Ditmars Avenue, etc., Second Ward.....	268,287.06
Madison Street, from Myrtle Avenue to Wyckoff Avenue; Wyckoff Avenue, from Madison Street to Halsey Street, etc., Second Ward....	40,796.00
Wyckoff Avenue, from Halsey Street to the Manhattan Beach Division of the Long Island Railroad, Second Ward (combined assessment).....	8,002.06
Ridge Street, from the Boulevard to Van Alst Avenue; Court Street, from Ridge Street to Broadway, etc., First Ward.....	10,321.89
Ridgewood Avenue, from Hamilton Avenue to Lefferts Avenue; Stoothoff Avenue, from Jamaica Avenue to Ridgewood Avenue, etc., Fourth Ward .....	28,642.55
Cypress Avenue, from 17th Street to 23d Street, and in 20th Street, from Franconia Avenue to Cypress Avenue, Third Ward.....	23,419.38

Atlantic Avenue, north side, from Stoothoff Avenue to Greenwood Avenue, and in	Cost.
Greenwood Avenue, from Atlantic Avenue to the crown, 650 feet north of Atlantic Avenue, Fourth Ward .....	4,711.94
Harman Street, from Forest Avenue to Grandview Avenue, Second Ward.	4,148.19
Fulton Street, from Vandever Avenue to Ocean View Avenue, and in Ocean View Avenue, from Fulton Street to Ridgewood Avenue, Fourth Ward .....	22,682.94
Beaufort Avenue, from Briggs Avenue to Lefferts Avenue, Fourth Ward	682.14
Maple Street and Hickory Street, from Freedom Avenue to the New York & Rockaway Beach Railroad, Fourth Ward.....	1,484.84
Wilbur Avenue, from William Street to Ely Avenue, First Ward.....	508.73
Fosdick Avenue, from Central Avenue to Myrtle Avenue, Second Ward..	2,236.55
Birch Street, from Jamaica Avenue to Hillside Avenue, Fourth Ward...	1,577.70
Hillside Avenue, from Brevoort Street to North Curtis Avenue, and in North Vine Street, from Jamaica Avenue to Ashland Street, Fourth Ward	* 4,139.57
North Curtis Avenue, from Hillside Avenue to Ashland Street, Fourth Ward .....	1,530.11
Newtown Road, from Thirteenth Avenue to Eighteenth Avenue, First Ward .....	3,591.64

#### RECEIVING BASINS.

Northeast corner of Willow Street and North William Street, First Ward .....	196.26
Easterly Corner of Flushing Avenue and Weil Place, First Ward.....	311.05
State Street at the Northeast Corner of Parsons Avenue and the Southeast corner of Brewsters Avenue, Third Ward.....	482.53
Easterly corner of Cypress Avenue and Harman Street, Second Ward....	327.88
Onderdonk Avenue, at the easterly corner of Suydam Street and the easterly corner of Hart Street, Second Ward.....	425.94
Temporary Park Basins on the southwest corner of Pleasant Avenue and Burroughs Avenue and on the easterly side of Pleasant Avenue opposite Burroughs Avenue, Fifth Ward .....	149.07
Southwest corner of Dill Place and Charlotte Place, Second Ward.....	231.02
Southeast corner of Jackson Avenue and Honeywell Street, First Ward..	376.34
Northeast and northwest corners of Myrtle Avenue and Woodbine Street, Second Ward .....	502.32
Northerly corner of Woodward Avenue and Silver Street, Second Ward..	232.26
Four corners of Hancock Street and Bodine Street, First Ward.....	659.46
Liberty Avenue, at the northeast and southeast corners of Stoothoff Avenue; at the southeast corner of Hamilton Avenue, etc., Fourth Ward	1,098.60
Northeast corner of Hamilton Avenue and Myrtle Avenue, Fourth Ward	210.50
Easterly and westerly sides of Purvis Street and Thomson Avenue, First Ward .....	241.06
Temporary Park Inlet Basins on the southwest corners of Oceanus Avenue, Lefferts Avenue, etc., Fifth Ward.....	242.32
Northeast, northwest and southwest corners of Thomson Avenue and Court Street, First Ward.....	1,489.21
Temporary Basins at the intersection of Shaw Avenue and Atlantic Avenue, Fourth Ward .....	1,701.33
Southeast corner of Nott Avenue and West Avenue, First Ward.....	262.33
Temporary receiving basins on the southeast corner of Nineteenth Street and Bayside Avenue, etc., Third Ward.....	413.98
Northeast corner of Jackson Avenue and Hunterspoint Avenue, First Ward .....	351.09

SEWERS.	Cost.
Church Street, from Hillside Avenue to St. Anns Avenue, Fourth Ward.	4,640.29
Bayreuth Street, from Murray Street to Wentworth Avenue, Third Ward	1,376.02
Lefferts Avenue, from Jamaica Avenue to Metropolitan Avenue, Fourth Ward .....	7,584.00
Walnut Street, from Ashland Street to St. Anns Avenue, and in St. Anns Avenue, from Walnut Street to Church Street, Fourth Ward..	4,936.27
Lawn Avenue, from Jerome Avenue to Beaufort Avenue, Fourth Ward..	1,707.76
Atlantic Avenue, north side, from Stoothoff Avenue to a point 112 feet east of Lefferts Avenue, etc., Fourth Ward.....	17,509.86
Orchard Street, from Jackson Avenue to a point about 385 feet southerly therefrom, First Ward .....	1,917.99
Malba Estates Corporation, from the end of the existing sewer at Fifth Avenue to Powell's Cove, Third Ward.....	33,478.91
Forbes Street, from Queens Avenue to Franconia Avenue;	
Gerold Street, from Queens Avenue to Franconia Avenue, etc., Third Ward .....	5,366.37
Ashland Street, from Hamilton Avenue to Myrtle Avenue;	
Stoothoff Avenue, from Bessemer Street to the crown, 216 feet south of Ashland Street, etc., Fourth Ward.....	6,732.92
Hallett Street, from Hoyt Avenue to Woolsey Avenue, First Ward.....	2,009.39
Forest Avenue, from Myrtle Avenue to Halleck Avenue, Second Ward...	606.45
Guion Avenue, from Jerome Avenue to Beaufort Avenue;	
Beaufort Avenue, from Guion Avenue to Napier Avenue, etc., Fourth Ward .....	7,540.65
Britton Avenue, from Broadway to Ithaca Street, and in Ketcham Avenue, from Britton Avenue to Pettit Place, Second Ward..	5,312.97
Steinway Avenue, from Jackson Avenue to Washington Avenue, First Ward .....	1,512.76

#### RECEIVING BASIN.

Southerly and westerly corners of Schurz Avenue and Ditmars Avenue, Second Ward .....	390.32
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#### SEWERS.

DeKalb Avenue, from Seneca Avenue to Onderdonk Avenue, Second Ward .....	840.33
Freedom Avenue, from Jamaica Avenue to Ashland Street; and in Brandon Avenue, from Freedom Avenue to Cedar Avenue, Fourth Ward	40,531.52
Central Avenue, from Proctor Street to Myrtle Avenue, Second Ward	113,876.29
Harsell Street, from the East River to Hamilton Street, and in Hamilton Street, from Harsell Street to Payntar Avenue, First Ward...	26,562.28
Payntar Avenue, from Hamilton Street to Sherman Street, and in the Boulevard, from Payntar Avenue to the crown north of Payntar Avenue, First Ward .....	7,016.47
Sherman Street, from Payntar Avenue to the crown about 330 feet north of Payntar Avenue, First Ward.....	1,099.89
Fulton Street, from Stoothoff Avenue to Bedford Avenue.;	
Greenwood Avenue, from Jamaica Avenue to a point about 640 feet north of Atlantic Avenue, Fourth Ward.....	16,161.60
Grove Street, from Seneca Avenue to Fairview Avenue, and in Fairview Avenue, from Linden Street to Ralph Street, Second Ward....	9,138.72
Van Alst Avenue, from Broadway to Ridge Street, and in Ridge Street, from Van Alst Avenue to Ely Avenue, First Ward.....	4,334.55

Total for the year 1915 ..... \$866,108.59



The following is a statement showing the number of miles of concrete sewers and pipe sewers constructed and the number of receiving basins constructed during the year 1915:

- 4.56 Miles of concrete sewers.
- 10.41 Miles of pipe sewers.
- 163. Receiving basins.

On December 31, 1915, there were in the Borough of Queens a total number of miles of brick and concrete and pipe sewers, receiving basins and sewage purification plants as follows:

- 49.04 Miles of brick and concrete sewers.
- 252.59 Miles of pipe sewers.
- 3226. Receiving basins.
- 3. Sewage purification plants.

The following is a summary of the work performed in connection with the preparation of drainage plans.

Table 1, gives the summary of the plans prepared and the number of acres included in each and divided according to Wards. As time has permitted, studies of the drainage situation in the Fifth Ward, both as to collection and disposal, have been made. In these investigations, the many suggestions and recommendations contained in the reports of the various commissions, or experts employed by them have been carefully studied. An investigation of the drainage problem in the Fifth Ward has not, however, been carried far enough to enable us to make recommendations at this time.

In the work of investigation and study of the various areas to be drained, we aim to follow the best modern practice. The object aimed at is the building of an adequate drainage system at the least cost to the taxpayer.

Ward.	Plans Prepared and Sent to the Board of Estimate During 1915 But Not Adopted.	Plans Restudied and Sent to the Board of Estimate During 1915 But Not Adopted.	Plans Prepared or Restudied During 1915 But Not Sent to the Board of Estimate.	Plans Adopted During 1915.	Plans Adopted Previously.	Plans Adopted During 1915 But Prepared Previously.
1st	2 plans affecting 73 acres	.....	3 plans affecting 750 acres	.....	4 plans affecting 65 acres	.....
2d	1 plan affecting 15 acres	.....	1 plan affecting 105 acres	.....	2 plans affecting 235 acres	.....
4th	6 plans affecting 143 acres	.....	2 plans affecting 38 acres	.....	7 plans affecting 470 acres	.....
5th	.....	.....	1 plan affecting 209 acres	.....	*1 plan affecting 5,500 acres	.....
Totals.	9 plans affecting 231 acres	4 plans affecting 600 acres	7 plans affecting 1,102 acres	5 plans affecting 115 acres	14 plans affecting 6,270 acres	.....

\* A plan made for the purpose of legalizing the limits of the area to be assessed for the Jamaica Disposal Plant.

## BUREAU OF SEWERS



BUREAU OF SEWERS—ANNUAL REPORT FOR YEAR ENDED DECEMBER 31, 1915.

SEWER MAINTENANCE DIVISION.

*Organization Chart.*

The diagram shows the distribution of the sewer maintenance forces as of December 31, 1915, on the various classes of work, including the disposal plants in the Second, Fourth and Fifth Wards, and the screening plant in the Third Ward.

DUTIES AND FUNCTIONS.

The maintenance division is responsible for the care of sewers and drainage systems, and the operation of disposal plants after construction. This work comprises the cleaning, repair and reconstruction of sewers, manholes, catch basins, culverts and open drains, and the repair and renewal of equipment and buildings, as well as the operation of sewage disposal plants; the drawing of requisitions for materials, apparatus and open market contracts, the investigation and report on sewer complaints and claims, and records of work and costs.

SUMMARY OF YEAR'S WORK.

The following table shows the amount of work performed on the various functions of sewer maintenance. The costs in general are given in the report of the Accounting Division:

STATEMENT OF WORK PERFORMED BY THE MAINTENANCE DIVISION OF THE BUREAU OF SEWERS, BOROUGH OF QUEENS, DURING THE YEAR ENDED DECEMBER 31, 1915.

	Quarter Ended March 31, 1915.	Quarter Ended June 30, 1915.	Quarter Ended September 30, 1915.	Quarter Ended December 31, 1915.	Total.
No. basins cleaned.....	2,393	2,651	2,448	2,537	10,029
No. cubic yards removed	2,248	2,258	2,395	4,941	11,842
No. loads removed.....	2,274	2,852	2,699	2,976	10,801
No. basins relieved.....	4,565	668	1,150	4,996	11,379
No. basins repaired.....	24	51	54	28	157
Lineal ft. sewers cleaned	761,075	1,017,000	908,190	935,559	3,721,814
No. loads removed.....	1,319	1,206	1,340	1,216	5,081
Lineal ft. sewers re- paired .....	470	478	486	653	2,087
No. manholes cleaned...	4,215	5,348	4,613	4,398	18,574
No. manholes repaired..	21	63	28	36	148
Lineal ft. open drains cleaned .....	57,134	94,970	97,290	102,745	352,139
No. loads removed.....	529	422	926	1,631	3,508
Lineal ft. drains repaired	.....	250	60	178	488
Lineal ft. culverts re- paired .....	20	50	36	.....	106
Pipe drains laid.....	.....	100	.....	193	293
No. basins built.....	3	.....	.....	5	8
No. manholes built.....	12	.....	.....	1	13
No. loads snow removed from Corporation Yards .....	16	.....	.....	.....	16
Lineal ft. culverts cleaned .....	1,503	.....	.....	.....	1,503

	Quarter Ended March 31, 1915.	Quarter Ended June 30, 1915.	Quarter Ended September 30, 1915.	Quarter Ended December 31, 1915.	Total.
Gallons of Sewage Pumped and Treated:					
Newtown Disposal Plant .....	59,562,000	66,848,000	70,941,000	59,085,000	256,436,000
Jamaica Disposal Plant .....	234,698,000	248,407,000	257,389,000	229,514,000	970,008,000
Far Rockaway Dis- posal Plant .....	106,491,000	113,129,000	159,002,000	86,127,000	464,749,000
Manhole Covers Re- placed:					
24-inch .....	19	2	17	9	47
23½-inch .....	13	13	15	11	52
23-inch .....	..	11	..	..	11
22½-inch .....	2	5	5	7	19
22-inch .....	..	7	..	..	7
21½-inch .....	..	..	1	..	1
	34	38	38	27	137

The following table shows a comparison of cost figures for five years, from 1911 to 1915, inclusive:

#### BASINS.

	1911.	1912.	1913.	1914.	1915.
No. basins cleaned.....	6,945	8,847	9,910	9,328	10,029
Loads removed .....	.....	.....	10,775	10,291	10,801
Cubic yards removed...	9,490	10,793	10,959	9,827	11,842
Cost per basin.....	\$3.50	\$2.93	\$2.61	\$2.48	\$2.67
Cost per cubic yard...	\$2.54	\$2.40	\$2.37	\$2.35	\$2.27
Total cost .....	\$24,174.00	\$25,899.00	\$25,857.00	\$23,147.00	\$26,834.12

#### SEWERS.

	1911.	1912.	1913.	1914.	1915.
No. miles sewer cleaned	245	351	415	570	704
No. manholes cleaned..	7,902	10,335	11,450	16,385	18,574
Cost per mile.....	\$93.00	\$70.36	\$72.40	\$46.00	\$37.42
Total cost .....	\$22,922.00	\$24,696.00	\$30,054.00	\$26,190.00	\$26,342.31

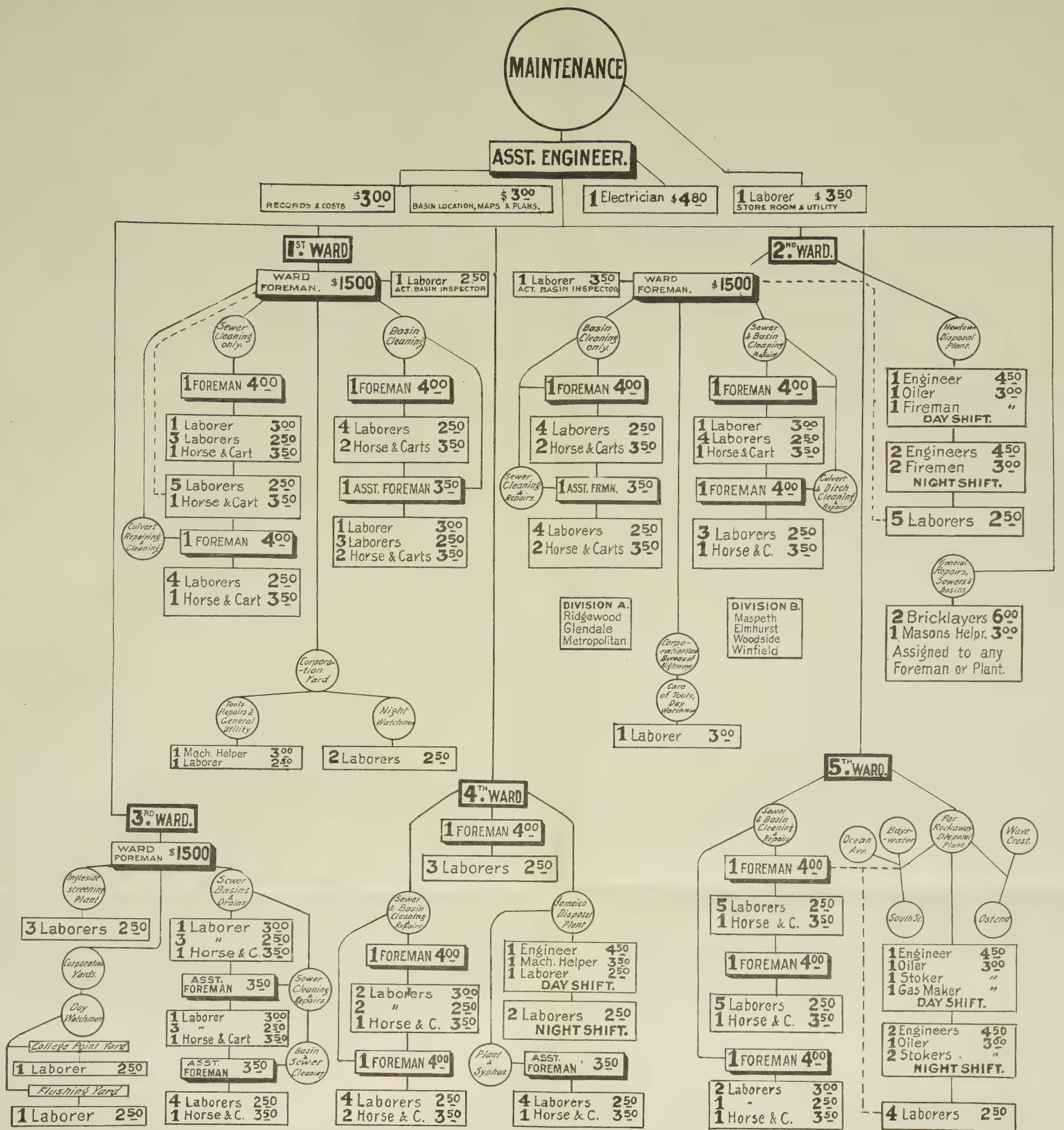
#### INSPECTION METHODS.

There is no special force detailed solely to inspection work, except one laborer in each of the First and Second Wards, where basins exist in greatest numbers, who report to the ward foremen, where basins are most in need of cleaning.

In general, inspections are made by the gang foremen, who, with their intimate acquaintance with conditions in their own sections, can usually anticipate sewer troubles by giving regular periodic attention where it is most needed. They also investigate and report on complaints.

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Maintenance Forces, Bureau of Sewers, Borough of Queens.

DECEMBER 31<sup>ST</sup> 1915.

## RECORDS.

In addition to the gang foreman's daily and weekly time sheets, he submits at the end of each week a work sheet for each day showing the material used, time consumed and force employed on all work performed; one report form is provided for sewer, manhole and open drain and culvert cleaning and repair, and another form for basin cleaning and repair. Another report form is used by the engineers in charge of disposal plants, giving similar information and including the volume of sewage pumped and treated, coal and other supplies consumed, etc. All this data is summarized by one man in convenient book form at the main office, three record books being used; one for sewers and open drains, one for basins and one for disposal plants. The basins are identified by numbers to avoid lengthy and ambiguous descriptions of locations of basins, all foremen employed on basin work being provided with blueprints indicating the basin numbers. From the office record books, all quarterly and annual reports are compiled, and they also serve for convenient reference, as to work performed, where damage claims are to be investigated. A complaint book is also kept, referring by number to reports made by foremen on the investigation of each complaint.

A separate central stores division receives weekly reports from foremen on the receipt of equipment, materials and supplies at their local corporation yards, and also on the distribution or consumption of these items.

## SEWER FLUSHING AND CLEANING.

Many of the sewers in this borough were built before consolidation in the various villages now comprised within its limits, intended to serve only temporary or local purposes, but have been continually extended to take additional contributions for which they are in many cases entirely inadequate, particularly in sections affording little available grade. A large number of them are characterized by poor alignment and construction and some are of cement pipe which have disintegrated. All known methods of cleaning are frequently combined on one sewer, and it is therefore difficult to separate the work done under the headings of flushing and cleaning. In the Rockaways we have frequently found lines of sewers repaired with lengths of pipe of smaller diameter, which have accounted for stoppages and which obstructed the passage of the usual cleaning apparatus, until these sections were dug up and replaced with pipe of proper size. In such cases the accumulated material is flushed to the nearest manhole, where it is intercepted and removed in carts. Rods and extension shovels are used to detach rags and sticks and remove sand. Turban sewer cleaning machines operated by fire hydrant pressure have served very effectively to cut out roots where trees have grown in close proximity. On small and tortuous sewers in the Rockaway Beach section, where high tides and loose pipe joints cause stoppages by sand, a special hose nozzle invented and patented by one of our laborers, has proved a very effective cleaning agent. This nozzle is pear shaped, with an opening forward in the stem end, allowing some of the hose discharge to loosen the material ahead, and three openings in the larger part directing the water pressure backward, making it self-propelling, and washing the sand down stream when the nozzle is directed upward against the stoppage.

## CATCH BASIN CLEANING.

The catch basins in this borough are of varying construction. Some are of the small park basin style, some square or irregular of timber, and some large leaching cesspools in unsewered sections, as well as the modern standard basins as built on new sewer construction. The latter are cleaned through the opening in the granite head by a rope and bucket filled by a man in the bottom and lifted to the surface by another. The basin gangs are composed of a foreman with four laborers and two horses and carts. Two basins can thus be cleaned simultaneously. Each two men





12-FT. 6-IN. TUNNEL, FIFTY-FIRST STREET SEWER.

after excavating the material from one basin go to the next basin and remove the water while their cart is at the dump. Many of the basins in this borough are on streets without improved pavements and the basin deposits are of very heavy sand and grit, quite different from the lighter deposits washed from impervious pavements in built-up sections of the city. Some of the basins require cleaning after every heavy storm. In the First and Second Wards, where the basins are most numerous, certain gangs are detailed to basin cleaning exclusively, while in other wards the gangs are used as needed on both sewer and basin work.

#### REPAIRS.

Repairs on sewers, manholes and basins are made in most all wards by the gangs employed in general sewer cleaning. Two bricklayers and a mason's helper are employed on general repairs and reconstruction as well as the raising or lowering of manholes where this work is necessitated by regrading done by highway maintenance forces. They also make the necessary repairs and alterations at the disposal plants. Unit costs on such repair work can hardly be comparative since the repair on one manhole may mean only one or two courses of brick in raising or lowering, while on another it may represent the entire reconstruction of an old manhole which has fallen down, and which may be of any depth from 2 to 15 feet. The cost of sewer repair also will vary with the depth of excavation ranging from 2 feet in the Rockaways to 20 feet or more in other sections, and also with varying ground water conditions, tides, etc., these variations often having more influence on the unit cost per foot than the size of the sewer.

#### OPERATION OF DISPOSAL PLANTS.

##### JAMAICA DISPOSAL PLANT.

The Jamaica Disposal Plant is located on the meadow near Lincoln Avenue and Old South Road, South Jamaica, or near the northeast corner of Stanley Avenue and Shenandoah Street, as laid down on the adopted street map.

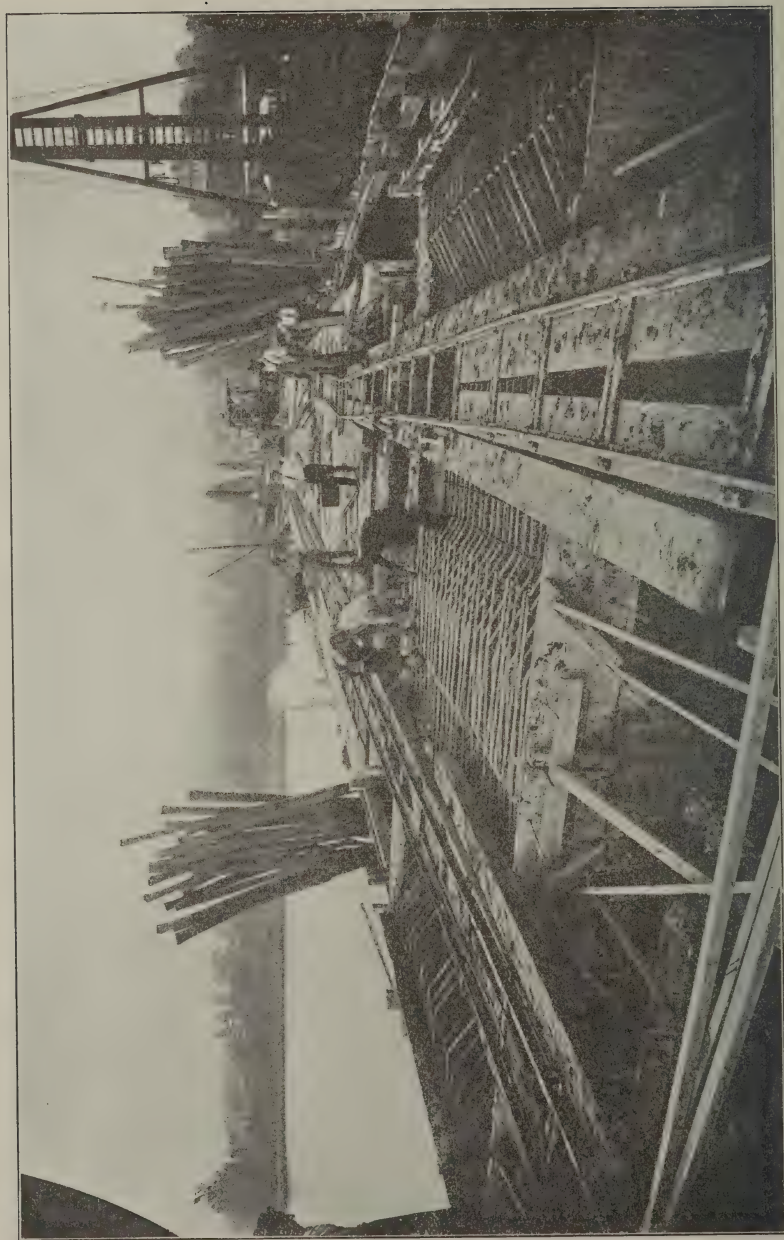
This plant receives the house sewage from Jamaica and Richmond Hill, together with that portion of the storm water from Richmond Hill which does not overflow to the Panama Street storm water outlet.

The process of sewage treatment here consists of clarification by the addition of lime and copperas solutions, as the sewage flows continuously through settling tanks. The plant is built with two sets of these tanks, one set being in use while the other set is being cleared of its accumulated deposit, called sludge. The sewage flows into and through the plant by gravity, no pumping being required except for the discharge of the sludge in semi-liquid form during cleaning periods and for the supply of wash water under pressure.

For cleaning purposes each set of tanks is provided with a centrifugal pump and two chain-bucket elevators, and a centrifugal pump furnishes the necessary pressure when required in the building's water system. This apparatus is all driven by alternating current electric motors with power supplied by the New York and Queens County Electric Light and Power Company. Two lime mixing machines also driven by an electric motor, complete the power equipment of this plant. It is lighted by electricity and heated by a low pressure boiler.

As the sewage enters the plant it is treated with lime and copperas solutions and it flows back and forth from one tank to another, its suspended matters tending to settle out, and in the sixth and last tank the clarified sewage falls over a diagonal weir and passes through a siphon into the outlet sewer about 700 feet long and finally through an open flume about three-quarters of a mile to Jamaica Bay.

The deposit or sludge containing about 90 per cent. moisture is discharged into open pits or lagoons surrounding the plant on the north, east and south sides, re-



ROOF OUTLET FIFTY-FIRST STREET SEWER.



taining embankments being formed along the property lines, from excavated materials. The sludge is supposed to dry out by drainage and evaporation, but the high water level of the meadow land, the gradual clogging of the subsoil with fine sediment, the great depth of the deposit compared with its evaporating surface, and its exposure to rain, afford little opportunity for rapid drying. Consequently the sludge requires months to dry out before it can be excavated and removed in solid form. Some of it is taken by farmers during the winter and early spring and the remainder is carted along the line of the outlet sewer. Because of the very limited area for the drying of sludge, it is impossible to clean the settling tanks as often as is necessary to secure a satisfactory degree of clarification. To overload the sludge drying beds is to risk the violation of an injunction prohibiting the discharge of sludge on adjoining private property, while allowing it to accumulate in the settling tanks, progressively reduces the clear cross-section of the tanks, producing increasing velocities in the flow, thus preventing effective sedimentation and clarification of the sewage.

Request has been made for the purchase of additional land for the needs of this plant as well as for the Street Cleaning Bureau's Incinerator which is built on part of the land originally purchased for the sewage disposal plant.

The increase in flow at the Jamaica Plant due to the rapid extension of the sewer system in Richmond Hill, is adding considerably to the amount of sludge at the plant, and also exceeding the capacity of the plant for purification.

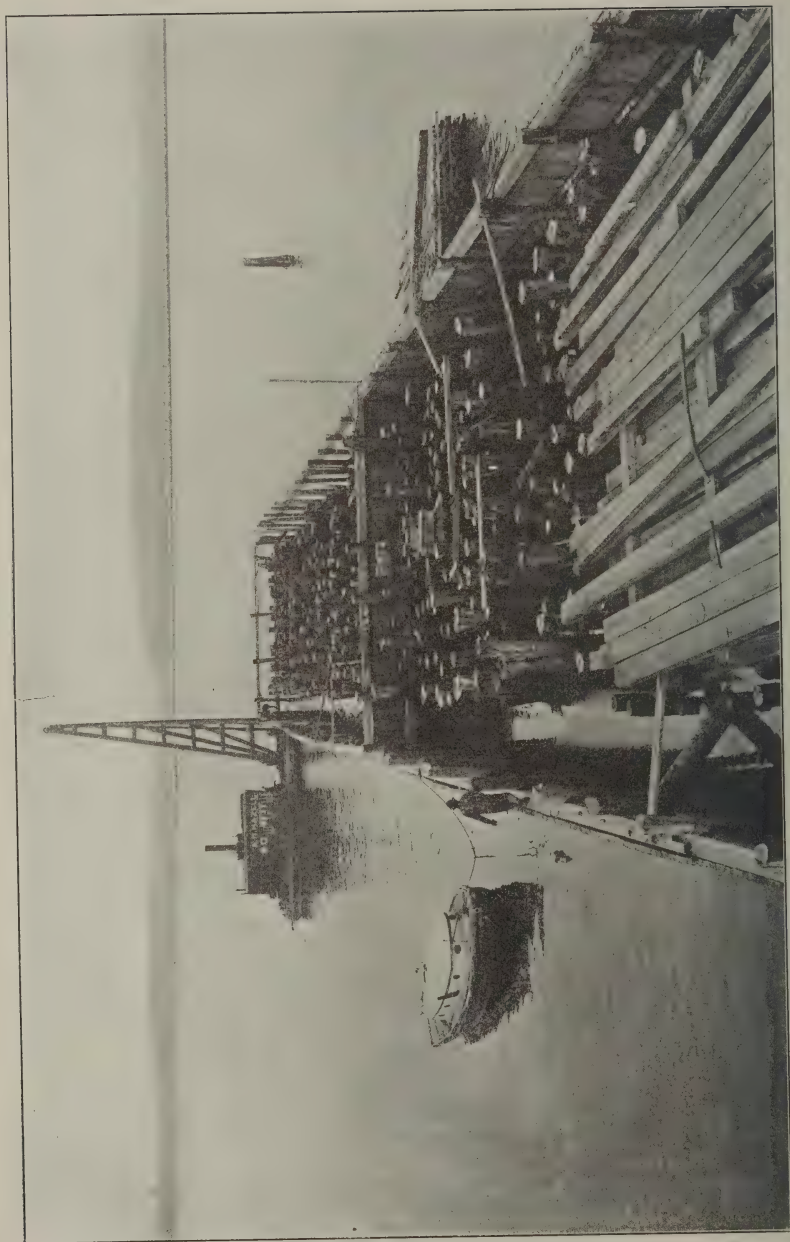
If both sets of tanks could be used simultaneously with the entire load thrown on one set only during cleaning periods a much more satisfactory clarification would result, but under present conditions one set of tanks must stand full of sludge for months until the sludge in the drying beds has had time to dry out and be removed.

This condition has also prevented the introduction of convenient measuring apparatus in the form of a traveling diaphragm to accurately determine the average velocity in conjunction with water-stage meter readings, from which data a discharge curve could be prepared for a closer estimate of the amount of sewage being treated. This is desirable not only for record purposes but for better determination of the amount of lime and copperas to be used.

The prolonged periods for which the tanks must be operated under present circumstances also has precluded the possibility of obtaining sludge sufficiently fresh for a fair test of the Schaefer-ter-Meer Centrifugal sludge drying machine loaned to this plant for experimental purposes. As successfully operated in Europe these machines receive sludge not more than two days old, and special tanks with hopper shaped bottoms also are used for the convenient removal of the sludge, while the tanks at the Jamaica plant have long and nearly flat bottoms. The use of lime as a precipitant is also prejudicial to centrifugal drying in this machine.

The regular operating force at this plant has been reduced to a minimum consisting of but one Engineer, with a mechanic's helper and one laborer as the day force, and one laborer on each of the 8-hour night shifts. This reduction in force was made possible by the substitution of commercial electricity for high pressure steam, and by the fact that the sewage itself does not have to be pumped, in which respect this plant differs from the Newtown and Far Rockaway Plants. The plant engineer also takes care of the pumping outfit at the Stanley Avenue siphon.

A separate gang in charge of an Assistant Foreman, as shown on the diagram of forces, is employed partly on the cleaning of the tanks and sludge drying beds, partly on the care of siphons and grit chambers on the Jamaica and Richmond Hill sewers, under the Brooklyn Aqueduct, and also on the pumping out of storm water from grade pockets in streets without drainage systems. The average daily flow during 1915 was 2.7 million gallons.



PILE SECTION FIFTY-FIRST STREET SEWER OUTLET.



#### RECOMMENDATION.

The purchase of more land adjoining this plant is recommended as the most urgent necessity at present.

If the complaints from the recently developed colony south of the plant are to be satisfied, it will be necessary to rebuild the open timber outlet flume to Jamaica Bay or even extend the brick sewer to completely enclose the flow.

#### FAR ROCKAWAY PLANT.

The Far Rockaway Disposal Plant was built by the Village of Far Rockaway about 1897 and is located at the foot of Leland Avenue near Sheridan Boulevard. Three Shone pneumatic ejector stations were built at the same time to lift the sewage from the low lying sections to the gravity sewers, whence it flows to the receiving well at the main plant. From the receiving well it is pumped again to the settling tanks and then flows to the head of Jamaica Bay at a point not more than 200 feet from the plant.

The equipment at the main plant consists of two Snow Plunger Sewage pumps with a daily rated capacity of one million gallons each and three Ingersoll-Rand air compressors supplying air to the outlying pneumatic sewage ejectors, and also lime mixing and sludge pump engines, all of which are driven by steam generated at the plant. In addition to this, two six-inch centrifugal sewage pumps, driven by commercial electricity, were installed as auxiliary pumping units.

During periods of heaviest flow all four sewage pumps have been found necessary. There are also two low level sewage pumping stations more recently built, also using commercial electric power; one of these is located at Wave Crest and one at Ostend. While they are designed to operate automatically, they require regular attention by the Bureau electrician who is also responsible for the proper operation of the three pneumatic ejector stations, as well as repairs to electrical equipment at the other plants.

The process employed for sewage treatment is the same as at the Jamaica Plant and the arrangement of the settling tanks is similar, though the capacity is much smaller.

At this plant a Venturi Meter with a Registering and Recording device is employed to measure and record graphically the varying rates of sewage pumping and the total quantity pumped and treated during any unit of time.

The small capacity of the settling tanks as compared with the volume of sewage passing through them allows only a short period of retention for sedimentation, but it is intended to double this period, at least for part of the coming summer season, by using both sets of tanks simultaneously, except when one set has to be shut off for cleaning.

In a comprehensive drainage plan for all of the Rockaways the present disposal plant may be continued as a pumping plant only, the sewage being treated at more favorable points, and for this reason it may be inadvisable to enlarge the sedimentation tanks, if the adoption of a new general plan is not too remote.

The disposal of sludge here is no more convenient than at the Jamaica Plant, although the area for drying it is greater compared with the amount of sludge accumulating in the tanks and hence it can be dried out quicker and be more readily removed.

The amount of sewage treated daily during 1915 averaged 1.3 million gallons.

#### NEWTOWN DISPOSAL PLANT.

The Newtown Disposal Plant is located on the Queens Boulevard east of Grand Street, Elmhurst, and was built in 1905 as a steam operated plant. The method of sewage treatment was plain sedimentation in four tanks in series and subsequent



POLK AVENUE SHAFT, FIFTY-FIRST STREET SEWER.

filtration on sand beds outside of the plant. The sewage was pumped from a receiving well to the tanks and flowed by gravity to the sand filters and thence to Horse Brook, a branch of Flushing Creek.

There was but one acre of fine sand filters to receive upward of one million gallons daily after sedimentation and it was considered impossible that the filter could operate with this overload since eight or ten times the area would normally be required. The quantity of sewage pumped and treated was roughly estimated, there being not even stroke counters on the plunger pumps to check the estimate of the flow.

When finally a Venturi Meter with an automatic recording device was installed, it was not surprising that the filter beds at once required more care. A convenient by-pass from the sewer to the creek was apparently less frequently used. Also with the increased volume of sewage actually treated, the quantity of sludge accumulating in the settling tanks naturally became more burdensome. A sludge drying bed built under the roof of the plant of broken stone and sand with a grid of two-inch steam pipes on its surface had been provided for drying the liquid sludge. About 20 tons of pea coal were wheeled in barrows and spread 6 or 8 inches deep over the steam pipes and the sludge was allowed to flow over the coal. After draining for a week or more, the water passing back to the receiving well, steam was turned into the pipes and the sludge thus heated to accomplish further drying for a period of about 10 days. If the sludge layer was then excessive some of it was scraped off and wasted in the neighborhood or given to florists or farmers and the remainder mixed with the coal to be burned under the boilers as needed. The sludge still contained about 70 per cent. moisture, which of course had to be evaporated before any organic carbon could be available for the generation of heat. This was shown to be uneconomical but as no other means had been provided for sludge disposal, operation of the plant by steam could not be discontinued in favor of less expensive operation by commercial electricity.

In search of a solution of the problem, a method of treatment by an electro-chemical process was tried on a small scale with apparatus treating 25,000 gallons per day, the results being sufficiently satisfactory to warrant the installation of an electrolytic machine loaned for experimental purposes and capable of treating the entire flow of the plant. This was put in operation in March, 1915, and has been in use ever since. The sewage is treated with lime solution and electrolyzed and the effluent after passing through two of the four existing settling tanks requires no further treatment. The filter beds have therefore been abandoned and have become overgrown with grass and weeds. Two centrifugal sewage pumps driven by commercial electricity were substituted for the steam pumps and the sewage forced directly through the electrolytic machine to the settling tanks. Several reports have been made on the results obtained by this process of sewage purification, some favorable and others unfavorable, the contention bearing largely on the relative importance of the lime solution, the electrolysis, and the agitation by paddles in the electrolytic machine. Whatever else may be said, the durability of the electrodes, the paddles and the electrolytic machine itself under the conditions at this plant has been demonstrated, and the character of the effluent is excellent compared with former experience with the older process. There is no septic action in the tanks, no odor in the plant, and the sludge is so inoffensive that it is being discharged periodically into the creek with no ill effects, its lime content being rather a benefit in neutralizing acid decomposition along the line of Horse Brook as it flows through the low meadow land. This disposition of the sludge has also relieved the plant of the burden of drying and burning it under the boilers. Thus the plant is being operated at present entirely by commercial electricity. If the electro-chemical process is to be continued, another unit will have to be installed as a reserve, and a low pressure steam heating boiler provided.

The acceptance of the process by the central authorities is still undecided. The volume of sewage treated daily during 1915 averaged 702,000 gallons.

#### SCREENING CHAMBER.

The screen house provided temporarily at the outlet of the Ingleside sewer is attended only by three laborers, one on each eight hour shift, who collect the screenings from fixed wire screens in the bore of the 8-foot circular outlet sewer, and burn them in a gas incinerator erected in a small frame building over the sewer.

This sewer outlet, will later be extended to Myrtle Avenue, Flushing, where in conjunction with another outlet, the sewage will receive more adequate treatment.

The quantity of screenings collected and burned averages 100 pounds per day, the ash amounting to about 40 per cent. of the wet screenings.

#### MISCELLANEOUS MAINTENANCE WORK.

There are extensive areas in the Borough of Queens still unsewered, where open drains or ditches and road culverts are maintained to carry off surface water. These are cleaned and repaired either by special ditching gangs or by gangs employed on general sewer maintenance work. The quantity of this work is shown in the general statement of work performed during the year.

The care of siphons and the relief of storm flooded sections not yet provided with sewers are also functions of the maintenance division. This latter work consists of discharging troublesome accumulations of storm water by means of portable gasoline driven centrifugal pumps from street grade pockets to vacant property or to the nearest sewer or drainage ditch.

#### PLANS FOR THE FUTURE.

It is expected that during the coming year the sewer systems of Belle Harbor and of Neponsit on the Rockaway Peninsular will have to be taken over for maintenance by the Bureau of Sewers, and this is in addition to the rapid extension of the sewer systems in Richmond Hill, Ridgewood and Corona, will necessitate some increase in the sewer maintenance forces.

#### ITEMIZED ACCOUNT OF THE WORK ACCOMPLISHED IN THE CHEMICAL AND PHYSICAL TESTING LABORATORY OF THE BOROUGH DURING THE YEAR 1915.

Tests of paving pitch and asphaltic cement.....	61
Tests of sheet asphalt and asphalt concrete.....	162
Sand tests .....	94
Tests of asphalt block.....	17
Tests of wood block.....	36
Tests of granite block.....	11
Tests of road oil.....	6
Tests of fuel oil.....	2
Tests of limestone dust.....	7
Tests of cement.....	225
Tests of steel.....	98
Analyses of lime.....	36
Phenol co-efficients of disinfectants.....	4
Analysis of raw linseed oil.....	1
Analysis of turpentine.....	1
Analysis of varnish driers.....	1
Analysis of white lead.....	1
Analyses of tar.....	16
Analyses of creosote oil.....	2

Analyses of cement and determination of quantity in concrete.....	9
Sanitary water analyses, chemical and bacteriological.....	9
Analyses of sewage, chemical and bacteriological.....	268
Analyses of sludge.....	5

It is to be noted that the majority of the work is on sheet asphalt, asphaltic concrete, hydraulic cement, steel and sewage sanitation. However, the list shows the variety of work which comes into this laboratory in the course of a year.

Our experience has proven that however willing those in responsible charge of the different organizations doing work under contract in this borough may be, to conform to specification requirements, the results are not entirely satisfactory unless the work is promptly and carefully checked from time to time, and some of it constantly checked.

Since securing a laboratory organization for the Borough of Queens I have been enabled to secure a prompt chemical or physical analysis of supplies, or materials used in construction, such as could not well be secured by any other plan, and the results obtained have been much more satisfactory than before the borough laboratory was installed.

Among the new phases of work undertaken during the year 1915 is the making of sand tests. Samples from local banks in general use have been taken from time to time, and where found not to meet specification requirements the use of this sand in municipal work coming under this bureau has been prohibited.

The list of work done contains many cases where prevention of improper materials entering the work was only possible because we were enabled to make analysis of the materials without previous notice. This could only have been accomplished by having the laboratory in close co-operation with the work. It has, therefore, been more profitable to the City of New York to do the analysis and physical testing in the laboratory of the borough where the work was actually going on than be compelled to rely on laboratories outside of the borough.





**BUREAU OF STREET CLEANING**





## BUREAU OF STREET CLEANING—ANNUAL REPORT, 1915.

The duties of the Street Cleaning Department are:

To clean the streets paved with granite block, sheet asphalt, block asphalt, wood block, brick, Hassan and concrete.

To collect ashes, garbage, rubbish and street sweepings.

To finally dispose of ashes, garbage, rubbish and street sweepings.

To remove snow and ice from the principal thoroughfares of the borough.

### METHODS EMPLOYED.

Streets were cleaned by hand and by horse-driven sweeping machines.

Refuse was collected by laborers, horses and carts, trucks and teams employed by the bureau at a specified rate per day.

Ashes were deposited at inland dumps and on scows, and were also used for filling depressions in streets and making improvements in crosswalks.

Garbage was disposed of at crematories, inland dumps, piggeries and (in the Rockaways) by scows during the summer months.

Street sweepings were disposed of at inland dumps.

Rubbish was disposed of at inland dumps, crematories and scows.

Snow and ice were disposed of at inland dumps, in the East River, Newtown Creek and in sewers.

Snow and ice were removed by the regular force of the bureau by additional force employed by the day and by railway companies operating in the borough.

### WORK ACCOMPLISHED.

The total number of square yards of pavement cleaned by hand during 1915 was 772,040,398, an increase over 1914 of 251,415,961 square yards.

The total number of square yards cleaned by machine was 37,893,619, an increase over 1914 of 23,757,321 square yards.

During 1915, 639,245 cubic yards of refuse was collected, an increase over 1914 of 44,029 cubic yards.

During 1915, 232,191 cubic yards of snow was removed by the bureau.

### FINAL DISPOSITION OF MATERIAL.

Refuse collected in Queens Borough during 1915 was disposed of as follows:

.847 per cent. dumped in lots.

.097 per cent. disposed of at crematories.

.056 per cent. dumped on scows.

### EXTENSIONS OF SERVICE.

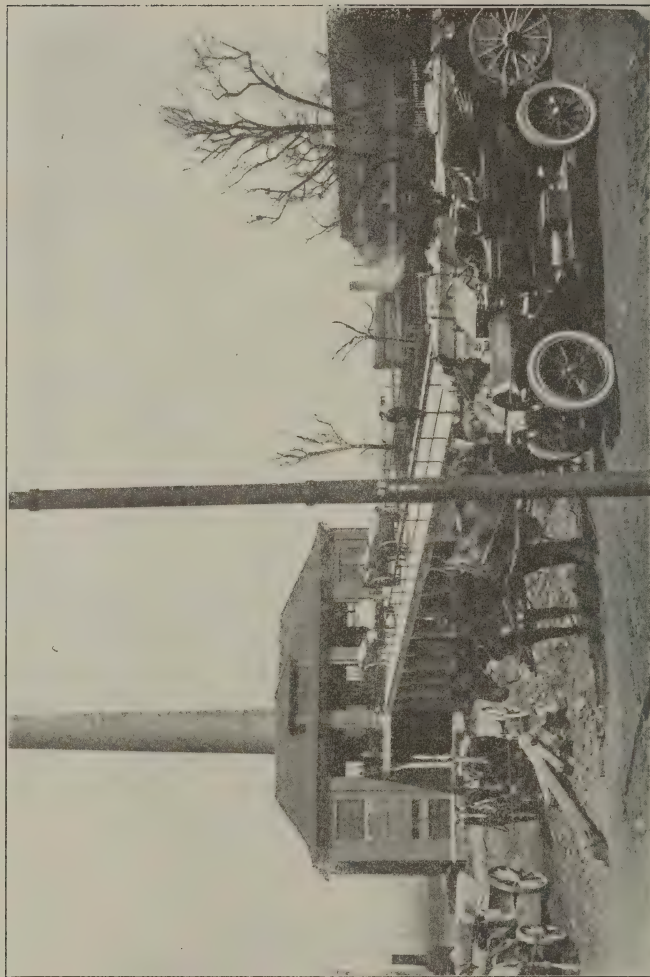
Refuse collections were extended to approximately 43,000 additional residents of Queens Borough.

91,023 square yards of paved streets were added to our cleaning area.

### DUMP TRIMMING.

The contract (for one year beginning March, 1915) for the privilege of reclaiming material deposited at the dumps of this bureau was let for the sum of \$158.63 a week, this being an increase of \$70.63 per week over the former price.

New requirements in the 1915-1916 contract were that the contractor furnish disinfectant and disinfect the dumps, and that he remove from the incinerator and dumps tin cans and other metal substances received by the Street Cleaning Bureau.



DESTRUCTOR PLANT AT RIDGEWOOD, SECOND WARD.

### NEW CONSTRUCTION.

Contracts for the construction of a waste destructor, section station and stable at Flushing and Metropolitan Avenues, Maspeth, were entered into and work started during August, 1915. The lowest bids received were as follows:

For the general construction of refuse-destructor plant.....	\$97,800.00
For the general construction of stable and section house.....	59,470.00
For the plumbing and gasfitting for incinerator building.....	1,425.00
For the plumbing and gasfitting of stable and section house.....	4,633.00
For the steamheating of the stable and section house.....	3,720.00
Total .....	\$167,048.00

This incinerator will be capable of disposing of 100 tons of refuse in 24 hours, and the garbage and rubbish collected in Maspeth, Middle Village, Metropolitan, Evergreen, Glendale and Ridgewood will be disposed of at this plant. This will be the first modern incinerator to be erected in Queens Borough.

### PROPOSED CONSTRUCTION.

A site (118,540 square feet) for a refuse destructor, central garage, section house, yard and buildings for the bureaus of Highways and Sewers at Hopkins, Graham and Van Alst Avenues, Long Island City, was purchased during 1915 for the sum of \$35,000. This bureau proposes to have a 100-ton incinerator erected at this place for the purpose of destroying all materials collected in the First Ward (Long Island City). This refuse material is now dumped in open lots.

The matter of condemnation proceedings for the acquisition of a site for a refuse destructor in the Rockaways is pending and this bureau has not been informed of any proceedings having been instituted by the Corporation Counsel.

The Board of Estimate and Apportionment has not acted on our request for an issue of corporate stock in the sum of two hundred thousand dollars (\$200,000) for the purpose of providing funds with which to erect an incinerator in the Fourth Ward.

### NEW EQUIPMENT.

A new type of canvas cover for steel carts and trucks owned by the City was introduced during 1915 and 60 steel carts and 6 steel trucks were equipped with them.

A squeegee machine was purchased at a cost of \$780. This type of machine is more effective in cleaning asphalt streets than the street-sweeping machine at present employed.

### ECONOMIES.

This bureau was able to purchase the following, for which no provision was made in the 1915 budget:

Squeegee machine .....	\$780.00
Cart covers .....	587.50
Side racks .....	256.75
Adding machine .....	540.00

Also, the sum of \$575 was transferred from this bureau.

### CONCLUSION.

The problem of disposing of waste material is the most difficult one confronting the Bureau of Street Cleaning. The dumping of garbage and rubbish at land dumps is a constant cause of complaint. Dumping grounds are becoming scarcer and we are forced to locate our dumps at more remote places. While there are areas of swamp lands in Queens Borough, experience has taught us that these are purchased and filled in a comparatively short time.

In the Fifth Ward (the Rockaways) the lease of the dock used by the Street Cleaning Bureau expires in 1916. In a mortgage which has been obtained on the property it has been stipulated that this property must not be used as a dump for refuse material. We know of no other place at which refuse can be dumped on scows.

The promiscuous dumping of trade waste is also creating insanitary conditions in the borough and steps must be taken in future to place this under proper regulation.

Unless adequate provision is speedily made for the erection of waste destructors, Queens Borough is likely to find that it is without a place to dispose of the rubbish and garbage collected.

The substitution of City-owned equipment for the collection of refuse material is next in importance. Better service and more sanitary conditions can be maintained with such equipment.

The statistics showing the work performed by the bureau during 1915 are subjoined.

#### GENERAL STATISTICS.

	1915.	1914.	Increase.	Decrease.
Population .....	431,000	388,000	43,000	.....
Area (Acres) .....	81,720	81,720	.....	.....
Density of Population .....	5.3	4.7	.6	.....
Miles of Streets .....	1067.67	1056.95	10.72	.....
Miles of Dirt Streets.....	600.00	600.00	.....	.....
Miles of Paved Streets .....	467.67	456.95	10.72	.....
Square yards of Streets Paved with Hard Pavement .....	3,037,340	2,970,223	67,117	.....
Square Yards of Streets (Hard Pavement) Cleaned by Street Cleaning Bureau .....	2,358,755	2,267,732	91,023	.....
Square Yards of Streets (Hard Pavement) Not Cleaned by Street Cleaning Bureau .....	678,585	702,491	.....	23,906
Number of Horses Stabled in Queens Borough .....	5,806	5,442	364	.....
Number of Automobiles Registered Queens County .....	6,954	4,926	2,028	.....
New Buildings .....	5,756	4,596	1,160	.....

#### MAXIMUM FORCE EMPLOYED DURING 1915.

Superintendent .....	1
Clerk .....	4
Stenographer and Typewriter .....	1
District Superintendent .....	5
Section Foreman .....	17
Assistant Section Foreman .....	16
Assistant Foreman .....	2
Dump Inspector .....	1
Assistant Dump Inspector .....	2
Dump Boardman .....	14
Stoker .....	1
Coal Passer .....	4
Sweeper .....	215
Laborer .....	33
Driver .....	1
Horse and Cart .....	135
Team and Truck .....	58

Team and Sweeper .....	6
Horse and Sprinkler .....	6
Automobile Engineman .....	1
Storekeeper .....	1

ADDITIONAL FORCE EMPLOYED ON SNOW REMOVAL.

Laborer .....	1,221
Foreman .....	40
Team and Truck .....	148
Horse and Cart .....	12

DISTRIBUTION OF BUREAU FORCE AS OF DECEMBER 31, 1915.

Title.	Admin. Office.	Ward 1.	Ward 2.	Ward 3.	Ward 4.	Ward 5.	Total.
Superintendent .....	1	..	..	..	..	..	1
Clerk .....	5	..	..	..	..	..	5
Stenographer and Typewriter.....	1	..	..	..	..	..	1
Storekeeper .....	1	..	..	..	..	..	1
Auto Engineman .....	1	..	..	..	..	..	1
Dump Inspector .....	1	..	..	..	..	..	1
Asst. Dump Inspector .....	2	..	..	..	..	..	2
District Superintendent .....	..	1	1	1	1	1	5
Section Foreman .....	..	5	4	3	3	1	16
Asst. Section Foreman .....	..	5	4	2	5	..	16
Dump Boardman .....	..	3	1	5	4	1	14
Stoker .....	..	1	..	..	..	..	1
Driver .....	..	1	..	..	..	..	1
Coal Passer .....	..	1	..	..	2	1	4
Laborer .....	..	10	9	2	11	..	32
Sweeper .....	..	75	68	22	28	12	205
Horse and Cart .....	..	36	31	24	35	5	131
Truck and Team.....	..	8	24	2	11	9	54
	12	146	142	61	100	30	491

STATEMENT SHOWING THE AVERAGE NUMBER OF TIMES STREETS ARE CLEANED BY BUREAU  
(MONTH OF NOVEMBER, 1915, AS A BASIS).  
(Square Yards.)

No. of Times Cleaned Per Week.	First Dist. (Ward).	Second Dist. (Ward).	Third Dist. (Ward).	Fourth Dist. (Ward).	Fifth Dist. (Ward).	Total Square Yards Cleaned.
19.....	..	..	..	7,087	..	7,087
18.....	11,120	..	..	16,931	..	28,051
13.....	..	..	10,867	29,315	..	40,182
12.....	307,864	190,114	35,495	132,692	..	666,165
11.....	42,784	66,939	3,400	3,080	..	116,203
10.....	29,936	1,800	..	..	..	31,736
9.....	..	..	7,183	..	1,500	8,683
8.....	9,967	..	..	7,353	..	17,320
7.....	..	18,754	..	..	5,950	24,704
6.....	354,015	247,897	91,648	50,906	55,413	799,879
5.....	128,469	73,825	11,679	..	1,987	215,960
4.....	20,884	36,216	..	7,000	..	64,100
3.....	35,324	29,578	9,779	..	1,944	76,625
2.....	33,907	46,964	..	..	2,208	83,079
1.....	47,728	45,036	14,956	..	10,770	118,490
Once every 2 weeks	5,840	16,942	..	..	..	22,782
Once a month.....	12,933	2,700	..	11,568	..	27,201
Twice a month....	..	..	..	10,508	..	10,508
Total Sq. Yds..	1,040,771	776,765	185,007	276,440	79,772	2,358,755

AREA IN SQUARE YARDS OF PAVEMENT CLEANED BY THE BUREAU OF STREET CLEANING, 1915

District (Ward).	Asphalt.	Wood Block.	Brick.	Blue Trap Rock.	Hassan.	Colbble.	Concrete.	Granite.	Total Square Yards.
1.....	736,579	74,409	9,709	.....	.....	.....	.....	220,074	1,040,771
2.....	339,930	17,779	93,110	666	8,110	11,725	.....	305,445	776,765
3.....	116,311	63,185	.....	.....	.....	.....	1,778	3,733	185,007
4.....	175,937	17,020	4,700	.....	.....	.....	.....	78,783	276,440
5.....	14,359	1,674	63,739	.....	.....	.....	.....	.....	79,772
Total Sq. Yds. Cleaned ....	1,383,116	174,067	171,258	666	8,110	11,725	1,778	608,035	2,358,755

QUANTITIES OF MATERIALS RECLAIMED AT INLAND DUMPS AND CREMATORIES USED BY THE BUREAU OF STREET CLEANING, FROM  
MARCH 22, 1915, TO DECEMBER 31, 1915.  
(As Reported by Dump-trimming Contractor.)

Station	Paper, News (lbs.)	Rags, Rope (lbs.)	Bags and Metals (lbs.)	Tin Cans (loads)	Bottles				Bones (lbs.)	Fat (lbs.)	Material reclaimed at scow dump ex- cluded.
					Beer (doz.)	Milk (doz.)	Misc. (bbls.)				
Corona .....	9,353	21,825	11,520	844	....	793	902	456	14,416	4,928	
Evergreen.....	117,383	73,409	24,770	2,174	28	982	1,156	765	16,156	5,021	
Far Rock. ....	.....	9,111	5,360	962	....	651	489	401	13,338	3,842	
Flushing .....	48,940	43,215	20,705	1,185	32	618	409	397	15,850	6,508	
Jamaica .....	15,140	18,267	11,162	856	....	838	866	681	10,267	5,972	
Ravenswood .....	45,170	33,710	13,385	1,242	58	889	675	404	23,855	6,053	
S. Jamaica .....	105,430	14,955	8,298	2,761	....	1,093	827	372	24,824	5,910	
Total.....	341,458	215,492	95,200	10,024	118	5,864	5,324	3,476	118,706	38,054	

Material reclaimed  
at scow dump ex-  
cluded.



# SCHEDULE FOR SNOW REMOVAL.

	By Railway Companies.			By Bureau of Street Cleaning Force.	
	Sq. Yds.	Miles.		Sq. Yds.	Miles.
Ward 1.....	232,738	4.5339	Ward 1.....	121,737	4.946
Ward 2.....	262,245	5.1543	Ward 2.....	172,845	9.150
Ward 3.....	70,805	1.1933	Ward 3.....	47,454	2.530
Ward 4.....	36,822	.7854	Ward 4.....	104,271	5.210
Ward 5.....	36,025	1.0763	Ward 5.....	40,814	2.190
Total....	638,635	13.5432	Total....	487,121	24.026

Date of Snowfall.	Depth of Snowfall, 1915. (Inches)	Quantity Removed by Bureau (Cubic Yards)
January 31.....	1.6*	.....
February 1-4.....	4.5	1,971
March 6-7.....	7.7	701
April 3-4.....	10.2	5,284
December 17.....	6.0 }	15,261
December 28.....	2.2 }	
	32.2	23,217

\* Removed by rain.

SUMMARY OF MATERIAL COLLECTED AND DISPOSED

Refuse Dumped at Inland Dumps.													
Month.	Ashes.	Garbage.	Rubbish.	Mixed Ashes, Garbage and Rubbish.	Sweepings.	Ashes and Rubbish.	Ashes and Garbage.	Ashes, Garbage and Sweepings.	Ashes and Sweepings.	Mixed Ashes, Garbage and Sweepings.	Garbage and Rubbish.	Rubbish and Mixed Ashes, Rubbish and Garbage.	Total.
January .	11,225	1,341	8,880	23,037	3,162	....	....	....	....	....	....	....	47,645
February .	10,272	1,610	8,562	16,528	2,234	4,217	....	....	....	....	....	....	43,423
March ..	11,758	1,290	9,068	23,989	3,010	....	....	....	....	....	....	....	49,115
April ....	8,784	1,504	10,263	8,942	2,720	....	344	11,452	1,126	993	25	....	46,153
May ....	5,795	2,137	10,599	8,988	3,012	65	31	11,511	1,426	1,042	....	....	44,606
June ....	2,318	1,661	9,143	7,791	2,107	890	263	1,186	3,223	917	....	2	40,178
July .....	1,888	1,865	10,318	7,010	2,335	577	321	12,370	3,169	939	....	....	40,742
August ..	1,894	1,576	10,328	10,695	2,399	520	311	13,104	1,975	890	....	....	43,692
September	2,259	2,445	7,794	11,031	2,186	520	918	11,631	2,944	945	....	....	42,673
October .	2,747	2,863	11,343	4,853	2,089	611	3,138	11,240	4,060	975	....	....	43,919
November	3,899	2,584	10,939	3,841	2,016	2,598	4,447	11,798	5,946	1,004	10	....	49,082
December.	3,549	1,701	12,115	4,512	1,285	1,468	8,032	13,284	6,235	1,102	10	....	53,293
Total..	66,388	22,577	119,352	131,217	28,555	11,466	17,805	108,203	30,104	8,807	45	2	544,521

OF DURING THE YEAR 1915 (IN CUBIC YARDS).

Refuse Delivered at Crematories.					Total.	Refuse Delivered at Scows.					Total.	Total All Kinds.
Garbage.	Garbage (Permit).	Rubbish.	Rubbish (Permit).	Garbage and Rubbish.		Ashes.	Garbage.	Garbage (Permit).	Rubbish.	Rubbish (Permit).	Ashes and Rubbish.	
2,456	12	937	....	....	3,405	....	....	....	....	....	....	51,050
776	....	1,123	....	....	1,899	....	....	....	....	....	....	45,322
1,176	2	3,172	84	....	4,434	....	....	....	....	....	....	53,549
1,269	....	3,554	80	42	4,945	....	....	....	....	....	....	51,098
1,322	....	3,926	58	....	5,306	....	452	....	1,304	....	574	2,330
1,524	....	4,355	92	....	5,971	....	922	....	....	....	3,758	4,680
2,066	142	4,065	88	....	6,901	14	1,908	543	....	306	5,543	8,314
2,475	186	4,325	96	....	7,082	....	3,121	930	....	520	5,754	10,325
2,166	194	4,429	143	....	6,932	....	1,275	255	....	112	4,900	6,542
1,345	2	4,453	104	....	5,904	....	450	5	....	18	3,385	3,858
1,239	....	4,179	77	....	5,495	....	....	....	....	....	....	54,577
740	....	3,610	93	109	45,595	....	....	....	....	....	....	57,845
18,554	538	42,668	915	151	62,826	14	8,128	1,733	1,304	965	23,914	36,049
												643,396



**BUREAU OF PUBLIC BUILDINGS  
AND OFFICES**



## REPORT OF THE BUREAU OF PUBLIC BUILDINGS AND OFFICES FOR THE YEAR ENDED DECEMBER 31, 1915.

### DUTIES AND FUNCTIONS OF THE BUREAU.

The duties and functions of this bureau are to attend to the repairs, cleaning and maintenance of the public buildings and offices of which the President of the Borough has cognizance and control, of the care and cleaning of offices leased or occupied for public uses, and of the care and maintenance of public baths and comfort stations. To provide also the necessary office equipment and supplies.

In reviewing the work of this bureau for the past year it is but fair to state that the majority of the buildings under our supervision are very old, and although they have received constant care and attention, it is impossible to maintain them in the same attractive manner in which modern buildings are maintained.

In the court room of Supreme Court, Part 1, at Queens County Court House, the accoustics have been corrected by the installation of a wall covering at a cost of \$2,200. A mail chute has been installed in the Queens County Court House with an opening for mail on each floor.

The court room and clerks' room of the First District Municipal Court, St. Mary's Lyceum, L. I. City, has been overhauled, altered, repaired and painted and new office equipment, plumbing and heating installed. New electric lighting fixtures have been installed in the Town Hall, Jamaica. The interior and exterior of the Town Hall, Newtown, thoroughly overhauled; all carpentry, plumbing, steamfitting, tinsmithing, masonry and electrical work attended to and the entire building painted.

A new tin roof has been put on the Town Hall, Flushing, and new toilets installed. The iron fence on the north side of the Town Hall, Jamaica, has been taken down and reset on the property line. A new fountain has been erected on the Town Hall property at the corner of Fulton Street and Flushing Avenue, Jamaica. The building in the rear of the County Building, Jamaica, occupied by the janitor has been thoroughly overhauled and painted. Minor repairs have been made to the various buildings, as will be shown in this report.

The plaza in front of the Queens County Court House, L. I. City, and the grounds adjoining the Town Hall at Flushing, and the Town Hall at Jamaica have been cared for by regular employees of this bureau. All shrubbery has been trimmed, lawns kept in good condition and flower beds maintained throughout the season at an expense of \$69.75 for plants, grass seed and fertilizer.

Following is a list of the buildings under the supervision of this bureau, with the location, ownership, etc:

*Queens County Court House*—Located at Court Square, Jackson Avenue, Thompson Avenue, Anable Avenue and Court Street, Long Island City. Owned by the City of New York. Plot, 239 feet 4½ inches on Thompson Avenue, 455 feet on Court Street, 28 feet 2¼ inches on Jackson Avenue, 640 feet on Anable Avenue and 200 feet on Long Island Railroad. The building was rebuilt during the year 1910 of stone and brick. Occupied by the County Court, Supreme Court, Parts 1 and 2, and Special Term, judges' chambers, District Attorney's offices, Sheriff's office, Commissioner of Jurors office, grand jury rooms, Deputy City Clerk, law library rooms, Grand Army Post room and janitor's apartments. There are two passenger elevators and five public toilets in the building. Floor area, 92,000 square feet. Windows, 357, containing 4,113 square feet; sidewalks, 18,900 square feet.

*Borough Hall*—Hackett and post-office buildings. Located at Jackson Avenue and Fifth Street, Long Island City. Leased by the City. This building was erected in the year 1893 for use as a department store. Occupied by the Borough President's offices, Commissioner of Public Works and Assistant Commissioner of Public Works



# ORGANIZATION CHART

## PRESIDENT OF THE BOROUGH OF QUEENS BUREAU OF PUBLIC BUILDINGS AND OFFICES OFFICE, TOWN HALL, FLUSHING, N. Y.

**Janitorial and Cleaning Force**  
1 Foreman of Laborers

**Queens County Court House**  
1 Janitor  
2 Sweepers  
1 Licensed Fireman  
3 Stokers  
2 Elevators  
1 Watchman  
8 Female Cleaners  
9 Laborers

**Borough Hall**  
1 Janitor  
1 Watchman  
6 Female Cleaners  
7 Laborers

**St. Marys Lyceum**  
1 Janitor  
1 Laborer

**Magistrate's Court, Far Rockaway**  
1 Laborer

**EXECUTIVE**  
Superintendent  
Chief Clerk  
Clerk  
Telephone Operator  
Attendant

**Mechanical Force**  
1 Foreman of Laborers

1 Electrician  
1 Steam Fitter  
1 Plumber  
2 Gas Fitters  
1 Tinsmith  
1 Grainer  
6 Painters  
1 Mechanic's Helper  
3 Laborers

**Interior Bath**  
2 Male Attendants  
2 Female Attendants  
2 Stokers  
1 Laborer

**Comfort Station, Jamaica**  
Cared for by laborers and cleaners assigned  
to the Town Hall, Jamaica

**County Building, Jamaica**  
1 Janitor  
1 Elevatorman  
1 Watchman  
2 Female Cleaners  
2 Laborers

**Town Hall, Newtown**  
1 Janitor  
1 Female Cleaner

**Town Hall, Flushing**  
1 Janitor  
1 Female Cleaner  
3 Laborers

**Town Hall, Jamaica**  
1 Janitor  
1 Male Cleaner  
2 Female Cleaners  
2 Laborers

offices, offices of the Secretary of the Borough and Secretary to the President, Consulting Engineer, Engineer in Charge of Construction, Purchasing Division, Appointment Clerk's office, Division of Audit and Accounts, Payroll Division, Local Board meeting room, offices of the Bureau of Highways, Bureau of Sewers, Bureau of Buildings, Bureau of Street Cleaning, testing laboratory. There are six public toilets in the building. Floor area, 34,110 square feet; 252 windows, containing 4,836 square feet; sidewalks, 5,000 square feet.

*St. Mary's Lyceum Building*—Located at Fifth Street, Long Island City and is leased by the City of New York. A brick and stone building. Occupied by First District Magistrate's Court, First District Municipal Court. Was built about the year 1901. There are four public toilets in the building. Floor area, 9,622 square feet; 36 windows, containing 815 square feet, and 600 square feet of sidewalk.

*Interior Bath*—Located on Eighth Street, Long Island City and is owned by the City of New York. The building was erected in 1909 and has a floor area of 4,085 square feet, with 455 square feet of sidewalk. This is the only public bath in the Borough of Queens and is divided into two sections, one for males and the other for females. The men's side contains 11 shower baths, 1 tub bath and a toilet room. The women's side has 12 shower baths, 1 tub bath and 1 toilet room. No charges are made or revenue received by the City of New York. The bath is open daily from 7 a. m. to 11 p. m., except Sundays and holidays, when it is open from 7 a. m. to 3 p. m. The attendance for 1915 was 41,562 males and 21,376 females.

*Town Hall, Flushing*—Located at corner of Broadway and Linden Avenue, Flushing. The building is owned by the City of New York and is built upon a plot 150 by 125 feet. It is a brick and stone building, erected in the year 1862. Occupied by the Second District Magistrate's Court, offices and storerooms of the Bureau of Public Buildings and Offices, local offices of the Bureaus of Highways and Street Cleaning, Department of Charities and Department of Parks and janitor's apartments. There are five toilets in the building. Floor area, 23,175 square feet; 99 windows, 1,825 square feet, and 8,023 square feet of sidewalks.

*Town Hall, Jamaica*—Located at corner of Fulton Street and Flushing Avenue, Jamaica, and is owned by The City of New York, and situated on a plot 229 feet 6 inches by 133 feet 95 inches. Building of brick and stone, erected in 1869. Occupied by Court of Special Sessions, Fourth District Municipal Court, Coroner's Court and Offices, Police Department, Inspector's Office, 278th Precinct Station House, Telephone Bureau, Fire Department, fire alarm station, Spanish-American War Veterans and Bureau of Weights and Measures. Contains two public toilets and has a floor area of 24,500 square feet; 187 windows, containing 3,496 square feet, and 11,842 square feet of sidewalks. Also occupied by Fourth District Magistrate's Court.

*Comfort Station*—Located on Fulton Street near Flushing Avenue, Jamaica, on the Town Hall plot, which is owned by the City of New York. The station was erected during the year 1910. There are seven closets, eight urinals and one wash basin on the men's side, and six closets and three wash basins on the women's side.

*Town Hall, Newtown*—Located at Broadway and Court Street, Newtown, on a plot 66 feet on Broadway, 115 feet on South Court Street, 133 feet 4 inches on North Court Street; was erected in the year 1892. Occupied by Second District Municipal Court, 277th Precinct, police station house. Has a floor area of 11,309 square feet; 90 windows, containing 1,577 square feet and 1,850 square feet of sidewalks.

*County Building, Jamaica*—Located at Fulton Street, Jamaica, is built of stone and brick, reconstructed during 1914-1915, and is owned by The City of New York. The building is occupied by the County Clerk and Surrogate. It contains two elevators, six toilets and has a floor area of 22,538 square feet; 137 windows, with an area of 2,780 square feet and 3,360 square feet of sidewalks.

Two-story and attic building in rear of County Building, Jamaica, is owned by The City of New York and occupied by the Janitor of the County Building. Building was erected many years ago and removed to its present site to make room for the erection of the County Building.

*Court House, Far Rockaway*—Located at Central and Mott Avenues, Far Rockaway, on a plot 88 feet 89 inches by 300 feet 56 inches by 89 feet 55 inches by 297 feet 86 inches, is owned by The City of New York and occupied by the Third District Magistrate's Court. It is a frame building one and one-half stories high and was erected in the year 1866. Has a floor area of 4,924 square feet; 21 windows containing 314 square feet and 1,200 square feet of sidewalks.

#### OPERATION AND MAINTENANCE COST OF PUBLIC BUILDINGS.

##### *Queens County Court House.*

##### Operation Cost—

Salaries and Wages of Janitor, Engineers, Stokers, Elevatormen, Watchman, Cleaners and Laborers.....	\$22,447.70
Fuel Supplies .....	3,816.14
Engineers' Supplies .....	30.80
Janitors' Supplies .....	422.95
Agricultural Supplies .....	46.50
	<hr/>
	\$26,764.09

##### Maintenance Cost—

Departmental Labor .....	\$5,033.20
Material .....	774.92
Contract and Open Order .....	3,154.86
	<hr/>
	\$8,962.98

##### *Borough Hall.*

##### Operation Cost—

Salaries and Wages of Janitor, Watchman, Cleaners and Laborers...	\$10,267.50
Fuel Supplies .....	648.34
Janitor's Supplies .....	385.71
	<hr/>
	\$11,301.55

##### Maintenance Cost—

Departmental Labor .....	\$3,584.75
Material .....	593.15
Contract and Open Order .....	115.00
	<hr/>
	\$4,292.90

##### *St. Mary's Lyceum.*

##### Operation Cost—

Salaries and Wages of Janitor and Laborer.....	\$1,682.50
Fuel Supplies .....	444.41
Janitor's Supplies .....	86.08
	<hr/>
	\$2,212.99

Maintenance Cost—

Departmental Labor .....	\$1,885.20
Material .....	211.52
Contract and Open Order .....	1,822.86
	<hr/>
	\$3,919.58
	<hr/>

*Interior Bath.*

Operation Cost—

Salaries and Wages of Attendants, Stokers and Laborers.....	\$6,308.50
Fuel Supplies .....	699.68
Janitor's Supplies .....	34.36
	<hr/>
	\$7,042.54
	<hr/>

Maintenance Cost—

Departmental Labor .....	\$475.65
Material .....	27.95
	<hr/>
	\$503.60
	<hr/>

*Town Hall, Newtown.*

Operation Cost—

Salaries and Wages of Janitor and Cleaner.....	\$1,680.00
Fuel Supplies. (Furnished by the Police Department.)	
Janitor's Supplies .....	117.24
	<hr/>
	\$1,797.24
	<hr/>

Maintenance Cost—

Departmental Labor .....	\$2,703.55
Material .....	323.58
Contract and Open Order.....	24.47
	<hr/>
	\$3,051.60
	<hr/>

*Town Hall, Flushing.*

Operation Cost—

Salaries and Wages of Janitors, Cleaners and Laborers.....	\$4,027.50
Fuel Supplies .....	793.94
Janitor's Supplies .....	157.72
Agricultural Supplies .....	11.62
	<hr/>
	\$4,990.78
	<hr/>

Maintenance—

Departmental Labor .....	\$1,196.95
Material .....	255.62
Contract and Open Order.....	1,081.80
	<hr/>
	\$2,534.37

*Town Hall, Jamaica.*

Operation Cost—	
Salaries and Wages of Janitor, Cleaners and Laborers.....	\$4,265.00
Fuel Supplies (balance furnished by Police).....	239.25
Janitor's Supplies .....	190.11
Agricultural Supplies .....	11.65
	<hr/>
	\$4,706.01

Maintenance Cost—	
Departmental Labor .....	\$1,801.05
Material .....	329.29
Contract and Open Order.....	1,676.50
	<hr/>
	\$3,806.84

*County Building, Jamaica.*

Operation Cost—	
Salaries and Wages of Janitor, Cleaners and Laborers.....	\$5,195.00
Fuel Supplies .....	648.81
Janitor's Supplies .....	164.60
	<hr/>
	\$6,008.41

Maintenance Cost (Including Janitor's House in Rear)—	
Departmental Labor .....	\$953.80
Material .....	124.38
Contract and Open Order.....	1,081.00
	<hr/>
	\$2,159.18

*Court House, Far Rockaway.*

Operation Cost—	
Salary of Laborer.....	\$912.50
Fuel Supplies .....	92.75
Janitor's Supplies .....	13.30
	<hr/>
	\$1,018.55

Maintenance Cost—	
Departmental Labor .....	\$161.30
Material .....	40.20
	<hr/>
	\$201.50

*Comfort Station, Jamaica.*

Operation Cost—	
Janitor and Cleaning Service by the Employees of Town Hall. Heat supplied by Town Hall heating plant.	
Maintenance Cost—	
Departmental Labor .....	\$390.50
Material .....	62.40
	<hr/>
	\$452.90

### *Water Supply for Public Buildings.*

Water for the Public Buildings and Interior Bath at Long Island City and the Town Hall at Flushing is supplied by the Department of Water Supply, Gas and Electricity.

Water for the Town Hall, Newtown, is supplied by the Citizens Water Supply Company of Elmhurst, at an estimated cost of \$40.

Water for the Town Hall, Jamaica, is furnished by the Jamaica Water Supply Company free under an agreement made with the authorities of the Town of Jamaica before consolidation.

Water for the Comfort Station, Jamaica, is supplied by the Jamaica Water Supply Company at an estimated cost of \$200 per annum.

Water for the County Building, Jamaica, is supplied by the Jamaica Water Supply Company at an estimated annual cost of \$150 per annum.

### COAL CONSUMED DURING THE YEAR 1915.

Queens County Court House.....	621 gross tons, 490 pounds
Borough Hall .....	71 gross tons, 1,475 pounds
Interior Bath .....	105 gross tons, 1,200 pounds
St. Mary's Lyceum.....	44 gross tons 1,004 pounds
Town Hall, Newtown.....	44 gross tons, 776 pounds
Town Hall, Flushing.....	65 gross tons, 750 pounds
Town Hall, Jamaica.....	68 gross tons, 2,202 pounds
County Building, Jamaica.....	92 gross tons, 119 pounds
Court House, Far Rockaway.....	12 gross tons, 745 pounds
Total.....	1,125 gross tons, 2,041 pounds

### CARPENTRY WORK DONE.

*Queens County Court House*—Put up shelves in vault, changed locks, repaired windows and eased doors, made bulletin boards, repaired door checks, repaired and fastened railings in Court Room, put up storm sash, made and hung gate in District Attorney's Office and put up shelving there. Removed storm doors and stairs, made platform for electric light fixtures, put on new mortice locks, installed new storm sash in Court rooms and Judges' rooms, put up storm door steps, etc., repaired furniture and made minor repairs throughout the building as required.

*Borough Hall*—Removed stationary desks, altered book cabinets, put up shelves on partitions, built tables in laboratory, put on door checks, eased doors, repaired sash, made large atlas cabinet for Engineers, Bureau of Highways, repaired locks, put in sash cord, put in stops on window partitions in laboratory, built partition between laboratory and office of Engineer of Highways, altered partition in Bureau of Highways, put in new sill under front doorway, built storeroom for Bureau of Buildings, built partition between testing machines and carpenter shop, repaired furniture, made cuttings for plumber and made general repairs.

*St. Mary's Lyceum Building*—Repaired windows and doors, laid new flooring, enclosed pipes, put up backing for partition for plumbers, put on bolts and door handles, built partition to form jury room, built Judge's desk and platform for same, made cuttings in floors for plumber and steam fitter, patched floors, replaced and renewed wainscoting base and trim and all necessary carpenter work in the First District Municipal Court room. Put up railing in First District Magistrates' Court.

*Interior Bath*—Made repairs to doors and windows and other small repairs as required.

*Town Hall Newtown*—Made cuttings for tinsmith, made and put up bulletin board, put on door checks, repaired doors, windows and locks, put in sash cord and repaired furniture.

*Town Hall, Flushing*—Removed oak and glass partition from basement of Town Hall, Jamaica, altered and set up same in the southeast room, first floor of the Town Hall, Flushing, to form offices for the use of the local Bureau of Charities Department, repaired doors, windows and locks. Removed stairs, wainscoting, trim, etc., from hallway on east side of first floor and built new toilet room, made cuttings for plumber, steamfitter and electrician, reduced width of stairs and replaced them, together with wainscoting and trim, built and hung transoms in toilets, repaired desks, chairs, cabinets, etc., and made general repairs as required.

*Town Hall, Jamaica*—Removed and placed in different location desk in the Municipal Court Clerk's room, put up shelving in the Magistrates' Court Clerks' room, made repairs to porches, stairs, steps and balusters, built partitions in rear entrance hall, to form a jury room, built new toilet room, removed old partition to new location, put up wainscoting, base, trim, etc. Removed doors leading to rear porch, installed new Mullion windows in place of same, removed steps from rear porch, faced up where same had been, made alterations in rear hallway to flooring, stair rails, repaired rear storm shed, put on weather strips, put up front storm doors, made frames for concrete construction work, replaced sash cord, repaired door and windows.

*Comfort Station, Jamaica*—Made repairs to doors and locks, eased doors and sash, put on new dead lock and repaired toilet seats.

*County Building, Jamaica*—During the early part of the year this building was in course of reconstruction by contract. Repairs were made to desks, cabinets and other furniture in the temporary office of the Surrogate. Made and put up slides for screens in windows of County Clerk's office and put up coat and hat hooks. In the building occupied by the Janitor in the rear of the County Building, stoops and cornice were repaired, roof and all defective woodwork repaired and all necessary carpenter work on the exterior and interior of building.

*Magistrates' Court, Far Rockaway*—Put in sash cord, eased and repaired doors and windows, repaired locks and made small repairs on the exterior of the building.

In addition to the carpentry work mentioned the Carpenters of this Bureau have erected a frame building for the Bureau of Sewers at the Jamaica Disposal Plant and have done carpenter work for other Bureaus.

#### PAINTING.

*Queens County Court House*—The side walls and ceilings of the first, second and third floors of the Administration Building received three coats of paint, with dado on side walls, railings on stairways have been cleaned and varnished. The District Attorney's Office, comprising eight rooms, toilet and hallway, have received three coats of paint on ceilings and side walls, sash filled and varnished, office glass-panel doors relettered and the woodwork cleaned, rubbed and varnished. Public toilets painted and varnished, roof on bridge to annex painted. Radiators have received coating of aluminum, together with iron railings on stairways. Throughout the building painting, varnishing and touching up has been done wherever necessary to keep the building in good condition. The walls in the Janitor's apartments have also been painted and the woodwork varnished.

*Borough Hall*—New partitions in Laboratory and Bureau of Highways and closets in the Local Board room have been painted, grained and varnished. The walls and ceilings have been painted and the woodwork painted, grained and varnished in the office of the Engineer of Highways, Permit Clerk's room, Bureau of Highways and Chemists' laboratory. The basement walls have been painted with cold water paint and the steam pipes and radiators finished with aluminum. Loose plaster on ceilings and side walls have been removed, replastered and finished with Muresco. All cracked and broken glass in sash have been removed and reglazed. Glass panel in office doors have been lettered as required.



*St. Mary's Lyceum Building*—The Court room of the First District Municipal Court has been painted and varnished. The Judge's desk cleaned and varnished, together with the Jury box, furniture, etc. All radiators and steam pipes finished with aluminum. Painting and touching up has been done in halls, on stairs, etc.

*Interior Bath*—The ceilings and side walls were cleaned, cracks filled and painted and the woodwork varnished, radiators and pipes painted with aluminum and glazing done where necessary.

*Town Hall, Newtown*—In all rooms on the second and third floors the ceilings and side walls have been cleaned and painted two coats of paint, the woodwork grained and varnished, radiators and steam pipes aluminized, toilet rooms grained and varnished. The Municipal Court room on the first floor has been painted three coats of paint and the woodwork varnished and all broken glass removed and replaced; the hallways and vestibules have also received three coats of paint, radiators and pipes aluminized, lettering done on bulletin board and glass panel doors. The entire exterior of the building received two coats of paint, the doors grained and varnished. The Judge's bench was cleaned and varnished and the Court room benches grained and varnished.

*Town Hall, Flushing*—Cleaned and painted the ceilings, walls and woodwork three coats of paint and cleaned and varnished oak partition in the office of the Bureau of Charities. Removed loose putty from all sash, glazed and reputtied same throughout the building.

*Town Hall, Jamaica*—Loose plaster was removed from ceilings where cracked on account of cuttings for new toilet room and the same replastered and painted. Toilet room painted, storm shed, side stoop and iron fence painted and cracked and broken glass repaired.

*Comfort Station, Jamaica*—Reputtied sash, painted same, cleaned and varnished doors.

*Janitor's House*—Rear of County Building, Jamaica. The interior and exterior of the building has been painted and sash reglazed where necessary.

In addition to the above mentioned painting, the Painters of this Bureau painted a building occupied by the Bureau of Street Cleaning as a local office in Jamaica.

*Magistrates' Court, Far Rockaway*—Painted woodwork where repairs were made.

#### PLUMBING.

*Queens County Court House*—All plumbing has been regularly inspected and repaired when required, flushometer valves taken apart, cleaned and oiled, large tank in attic taken apart, cleaned and repaired, the supply and waste pipes connecting the fountain in front of the Court House were repaired and replaced where required.

*Borough Hall*—Installed sink and basin, water, waste and vent pipes in Laboratory and Engineers Department, put in new closet pipes and flush pipe in Bureau of Street Cleaning. Toilet seats and urinal basins cleaned and ball cocks, valves, etc., repaired.

*St. Mary's Lyceum*—Installed new toilet room consisting of closet, basin, soil, waste, vent and water lines and repaired plumbing as required.

*Interior Bath*—Inspected plumbing, put in new valves, ball cocks, etc., repaired, put in new shower bath valves and made all necessary repairs.

*Town Hall, Newtown*—Made all necessary repairs and kept plumbing in good condition.

*Town Hall, Flushing*—Took out old and replaced with new, water supply pipe from cellar to second floor. Installed new toilet room consisting of closet and basin, water supply waste and vent lines on first floor. Put in combination bath, sink and wash tubs, hot water boiler and gas heater for same, water supply, waste vent and gas connection in Janitor's apartments. All other plumbing kept in good repair.

*Town Hall, Jamaica*—Put in new closet tanks, flush pipes and new seats in main

toilet, changed location of toilet room in rear of hallway, reset old fixtures and put in new soil, waste, vent and water connections. Set up new drinking fountain in front of building and made connection to water and waste pipe. Repaired other plumbing as required.

*Comfort Station, Jamaica*—Overhauled and repaired all urinal flushometers, cleaned basins, put in new valves, ball cocks and made repairs from time to time as required.

*County Building, Jamaica*—Inspected plumbing and remedied any defects found.

*Magistrates' Court, Far Rockaway*—Repaired supply pipe to wash basin, flush pipes to toilet and made other repairs where necessary.

Installed gas fixtures in building occupied by the Bureau of Street Cleaning as a local office in Jamaica.

#### STEAMFITTING.

*Queens County Court House*—Repaired check valves and valves of Pane Vacuum system, repaired leaks in feed lines to boilers and hot water line to jail, valves on fire line to main building, steam traps, etc. Overhauled feed pipes and pumps, repaired water gauge and cocks and leak in receiving tank, repaired and renewed radiator valves, etc.

*Borough Hall*—Repaired safety valves and damper regulator, changed radiator in Bureau of Buildings, repaired radiator valves, repaired leak on manifold on boiler, leak in feed line, packed valves, repaired thermostat on hot water tank and made general repairs. Boilers overhauled and cleaned.

*St. Mary's Lyceum*—Repaired leak in water column on boiler and leak in blow-off pipe, also leak in section of radiator, packed main stop valve on boiler, disconnected and removed radiators and piping, and installed new heating system, new valves on radiators, etc.

*Interior Bath*—Repaired leak in manifold on boiler, repacked reducing valve, repaired leak in feed line to hot water boiler, investigated cause of water being too hot at showers, measured and estimated capacity of both boilers, repaired thermostat and leaky valves on steam heads; also repaired steam coil connection on hot water tank.

*Town Hall, Newtown*—Disconnected radiators and replaced same with new risers, changed gas pipes and fixtures, made all necessary repairs to boilers, put glands in stuffing box on main steam valves, repaired main stop valve, replaced broken stuffing box, fitted new ash pit doors and packed radiator valves.

*Town Hall, Flushing*—Repaired leaky radiators throughout building, removed steam pipe and hangers for tinsmith, replaced same, removed radiator from hall and placed same in toilet with new risers and connections. New grates put in boilers and boilers cleaned.

*Town Hall, Jamaica*—Covered steam pipes in basement, repaired water column and leaky radiator valves, cleaned and repaired boilers and valves.

*County Building, Jamaica*—Made inspection to new heating system and minor repairs to radiator valves.

*Magistrates' Court, Far Rockaway*—Repaired discs on radiator valves, packed leaky steam valves, repaired leak in piping on boiler, on leaky valves and covered steam pipe under floor.

#### TINSMITHING AND SHEET METAL WORK.

*Queens County Court House*—Made brass mesh screens as protector for electric switch and bolted same to cement floor. Located and repaired leaks in roof, repaired sheet metal skylights, repaired leaks on dome and flashings, painted around flag poles with roof cement, made galvanized iron leaders, drip pans for elevator shaft, took apart steel cabinet in District Attorney's Office, took down and replaced letter boxes, made copper strainers for roof outlets, repaired copper gutters on main roof, sheet metal and loose braces on dome, repaired ash cans, snow shovels and other utensils in shop.

*Borough Hall*—Repaired copper utensils in Laboratory, repaired wrought iron gratings and ash cans. Took down old leaders and replaced same with new galvanized iron leaders and repaired around flag pole.

*Interior Bath*—Made galvanized iron stopper and damper for boiler pipes, galvanized iron elbows for leaders. Repaired copper skylight and flashings.

*Town Hall, Newtown*—Repaired galvanized iron gutters and leaders, porch roof, ash cans, etc.

*Town Hall, Flushing*—Formed and bended sheet metal and covered ceiling in cellar over boilers with same, as a protection against fire, repaired roof gutters and leaders, made large galvanized iron tank to hold oil, turpentine, etc., in store room, together with drip pans to place under same. Repaired ash cans and other utensils.

*Town Hall, Jamaica*—Repaired iron railings, leaks in roof, gutters and leaders, lined mansard main roof gutters, placed new tin flashings under slate, took down iron fence and removed same 12 feet north to property line, repaired and put up same. Building in rear of County Building, Jamaica. Repaired and painted gutters, took down and replaced galvanized iron leaders, painted tops of copings, with roof cement, repaired skylight, etc.

Also made repairs to sprinkling carts for the Bureau of Highways.

#### ELECTRICAL WORK.

*Queens County Court House*—Installed light on outside of basement entrance, requiring drilling through brick and stone wall, repaired and rewired fixture at rear entrance to Part 1 Court room, renewed circular zincs in batteries for bell system, installed marine switches and box in basement area, made repairs to push buttons and annunciator in elevator, adjusted contact clips, cleaned switch and panel board, removed old wire and installed new wire for three fixtures in main hall, created separate circuit and control for two wall and one stair landing fixtures on first floor hall, installed two new light outlets with fixtures in Clerk's room of County Court, installed new cable for portable fixtures in vaults and new brushes and copper segments for elevator motor, new tension spring for starting lever and carbon plates.

*Borough Hall*—Removed wiring and conduit from testing machine motor, made necessary changes and reinstalled conduit and new fittings for reversing switch, repaired lighting fixtures in Bureau of Sewers, starting switch and motor on test machine, secured loosened contact plate on service board, installed wire for switch to control east lights in office of Division of Audit and Accounts, removed and reinstalled moulding cap and wiring on old line of this circuit, installed two desk fixtures in the office of the Secretary of the Borough, cleaned, set and maintained 45 fan motors, made general repairs to motors connected with testing, tabulating, addressograph, graphotype machines; also carpet cleaning motors, vapor arc lamps, electric furnace heating coils and general equipment of laboratory. Installed conduit, wiring, etc., for eight receptacle outlets, sub-feeder and a new six-circuit panel cut out for laboratory equipment, installed larger size wire in one of the old conduits to connect with laboratory. Changed the locations of two fixtures in the Bureau of Buildings. Removed old circuit from ceiling of basement, reinstalled new circuit for six outlets in metal moulding to replace same.

Regularly inspected all wiring and cleaned panel and switch boards.

*Interior Bath*—Removed ventilating motor from roof house to basement, repaired and reset same. Regularly cleaned panel and switchboard and fixtures.

*St. Mary's Lyceum*—Inspected new electrical work in the Court room of the First District Municipal Court.

*Town Hall, Newtown*—Changed location of push buttons, recharged batteries and laid out plans for new electric lighting system.

*Town Hall, Flushing*—Repaired switch in basement, removed wiring conduit and fixtures to allow putting up fireproof ceiling in basement, repaired panel door lock, installed new floor outlet in office of Public Buildings and Offices, installed new

outlet, fixture and switch in new toilet, removed conduit fittings, etc., to permit the installation of toilet, and reinstalled same. Repaired carpet cleaning motors and cleaned panel and switch boards.

*Town Hall, Jamaica*—Inspected and reported on new electrical installation, placed new lamps in all fixtures on first floor, repaired bell wiring in basement, removed fixtures, conduit wiring and fixtures from rear porch, toilet and rear hall to permit removal of partitions, reinstalled electrical equipment after alterations were made; cleaned panel and switch boards.

*Comfort Station, Jamaica*—Reinstalled ventilating motor, secured starting box and protective cabinet, repaired fixtures in male compartment, fitted and installed lamp guards, cleaned panel and switch boards.

*County Building and building occupied by the Janitor*—Inspected and reported on new electrical work and installation in County Building, repaired, hung and connected temporary fixtures, removed temporary telephone wiring from outside wall of main building to connect temporary office of the County Clerk, installed conduit, wiring, fixtures, switches and cut out for seven outlets in building occupied by the Janitor.

In addition to the above, attention has been paid to replacing burned-out lamps with new ones in all buildings under the Supervision of the Bureau.

#### COMMENTS AND OBSERVATIONS.

It is deplorable that the officials of a borough the size and importance of Queens should be housed in a building so eminently unfitted for the purpose as the present Borough Hall.

Borough Hall, known as the Hackett Building, was erected in the year 1893. The building formerly occupying the property and used as a department store was destroyed by fire during the month of July, 1893. In order to erect and have a new building in readiness for the holiday trade, the present building was erected hurriedly. The department store venture was not a success, the business was closed out and the building unoccupied until leased by the City. As this building was never intended to be used as an office building, it has been a constant source of expense in making alterations, in a measure to meet the requirements of the President of the Borough and the Bureaus in his Department.

Owing to the construction of the building it has been a difficult matter to, at least, keep it in a presentable condition, the old wood floors and partitions making it particularly unsafe in case of fire; and it is very difficult to keep it in a clean, sanitary condition.

Nothing in the line of public buildings in this Borough is as greatly needed as a suitable Borough Hall, and it is to be hoped that the matter will be agitated until it is an accomplished fact.

The Interior Bath in 8th Street, Long Island City, since its erection in the year 1909 has been of great service to the people of that portion of the City. A movement was started some years ago to have an interior bath erected and maintained in College Point, the contention being that it is a factory district, with many small houses not provided with bathing facilities, and that it would be a great boon to many of the residents of that section. I am not in position to prove or disprove the merits of the contention, but if a public bath in that section would be of the same service as the Long Island City bath, the cost of same would be money wisely expended.

Owing to the objections of the Board of Health as to the use of Free Floating Baths in the waters of the rivers adjacent to the City, the floating bath owned by this Borough has been disposed of.

Arrangements are now in progress for the installation of an electric lighting system in the Town Hall, Newtown, which, with the completion of the installation now in progress in the Town Hall, Jamaica, will greatly add to the usefulness of these buildings.

**TOPOGRAPHICAL BUREAU**



## REPORT OF THE TOPOGRAPHICAL BUREAU FOR THE YEAR ENDED DECEMBER 31, 1915.

### TENTATIVE MAP.

The approval by the Board of Estimate and Apportionment on December 23 of the "Idlewild Map" marked the completion of the tentative map of the Borough. The complete tentative map of the Borough consists of fourteen separate units, viz., Long Island City, Maspeth, Ridgewood, Richmond Hill, Corona, Aqueduct, Jamaica, Far Rockaway, Rockaway Beach, Flushing, Hollis, Bayside, Black Stump and Idlewild. They vary in the area comprehended from 1,000 acres to 8,460 acres. All, except the first six, are the work of this administration.

Lithograph copies of each of these maps may be purchased at this office to a scale of 800 feet to the inch, and of all, except the first five, to a scale of 400 feet to the inch. The price for the smaller scale varies from 11 cents to 50 cents, for the larger scale from 60 cents to \$1.60.

Now that an official street and grade system has been designed and adopted for the entire Borough, it is incumbent upon real estate developers and promoters to subdivide their acreage in accordance therewith. No longer can they plead the absence of such a map as justification for laying out streets irreconcilable with a harmonious street system. Henceforth, their streets must conform with our tentative map, or they will not be recognized upon the final map. And that there may be no doubt as to the power of the City to control the subdivision of acreage into building lots, the Committee on City Plan is preparing a bill for introduction in the present Legislature which will make it obligatory upon real estate developers to submit their layouts to the proper City authorities for approval, before they can be filed with the County Clerk.

### FINAL MAP.

The progress of final map sections (atlas sheets) has proceeded apace. Twelve were approved by the Board of Estimate and Apportionment during the year, five are now before it waiting approval, six are now being draughted, ten computed and thirty-five surveyed.

Of special final maps seven were approved by the Board of Estimate and Apportionment, thirteen are now before it waiting approval, two are now being draughted, nine computed and two surveyed.

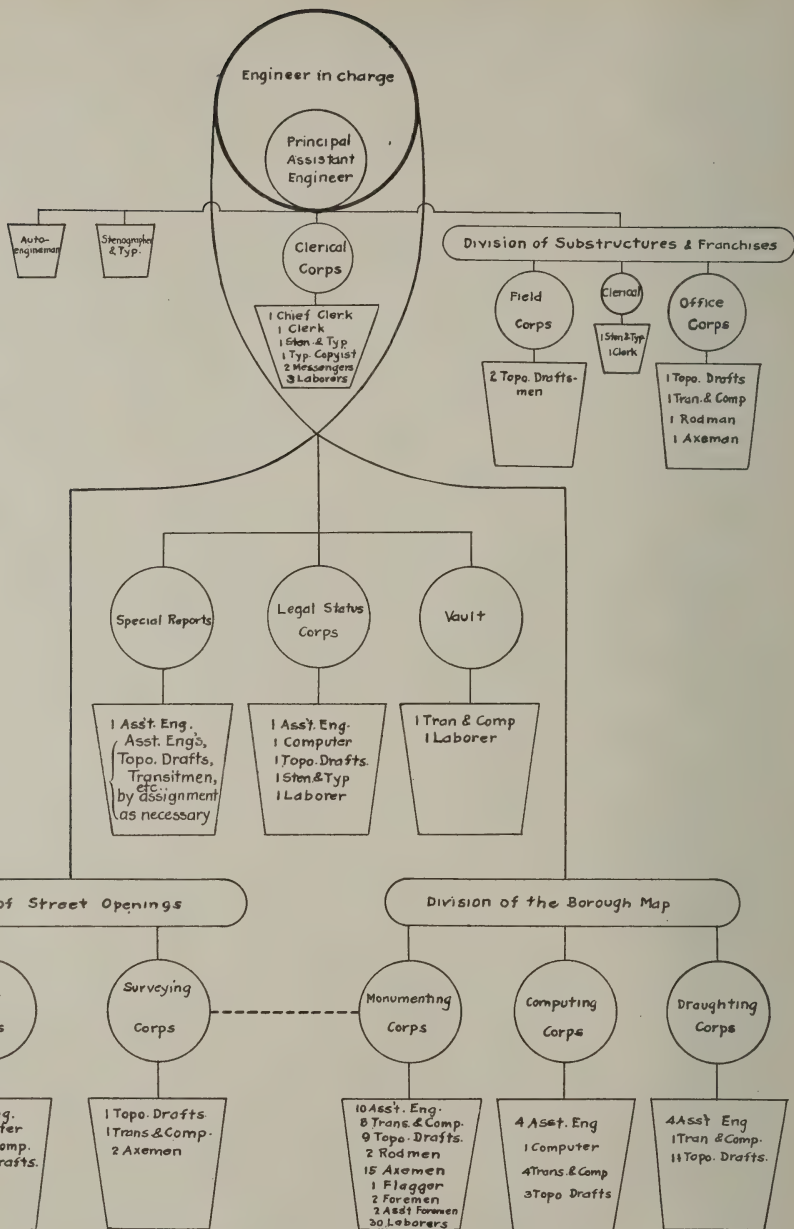
### STREET OPENING MATTERS.

The Statute Law, under which the City acquires property for street purposes, was materially amended by the 1915 Legislature. Heretofore, the evidence of value in street opening proceedings, and the assessment of the cost thereof, have been determined solely by three Commissioners appointed by the Supreme Court. Under the new statute these matters will be determined by the Supreme Court, sitting without a jury, although the final abolition of the Commission method is not effective until January 1, 1917.

Under the new statute, provision is made for partial payments to owners whose property the City takes prior to the completion of condemnation proceedings.

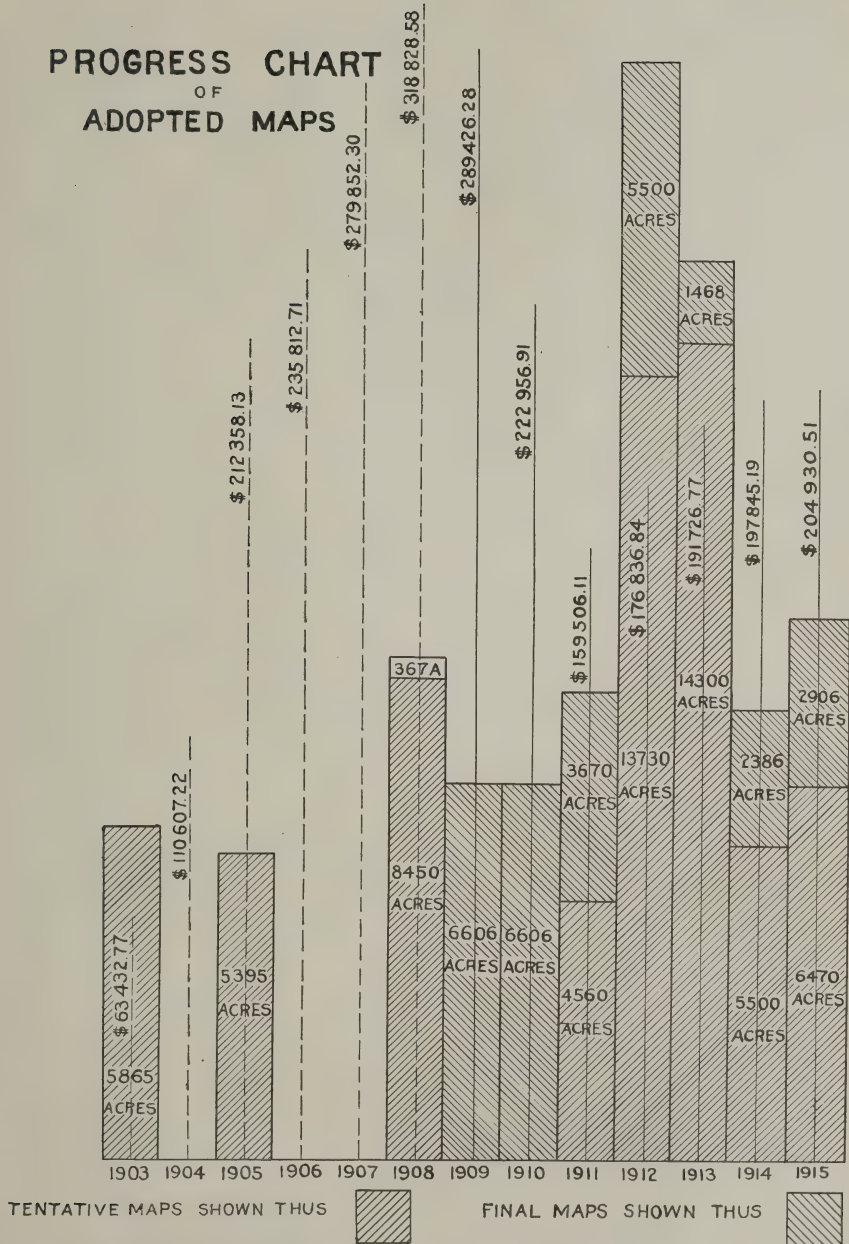
The Board of Estimate and Apportionment has the power at any time in the progress of a proceeding to pass a resolution that title to any or all of the property being condemned shall vest in the City on a stated date. They exercise this power when the urgency of some improvement outweighs the interest charge that would accumulate between the date of vesting and the date of confirmation.





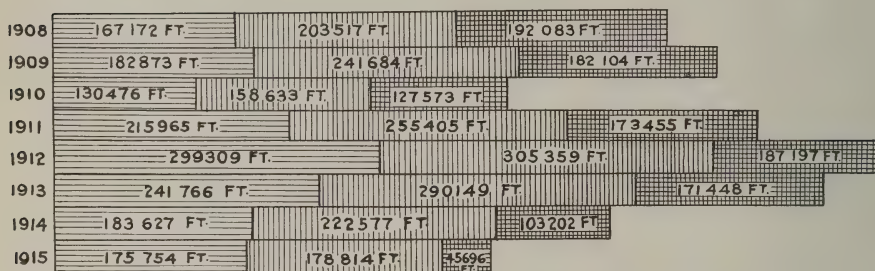
ORGANIZATION CHART

# PROGRESS CHART OF ADOPTED MAPS

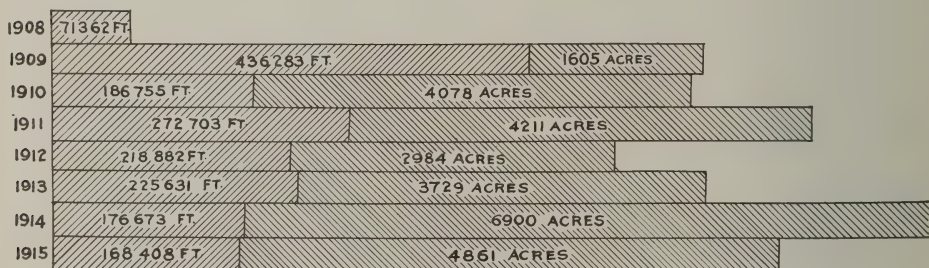
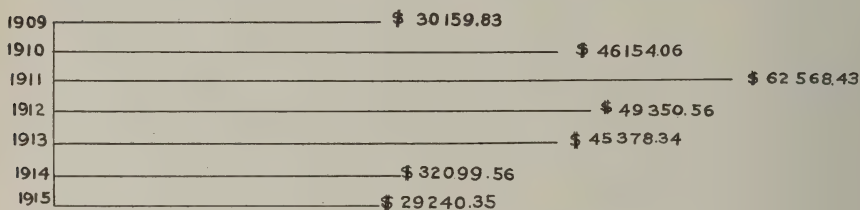


NOTE Broken lines include cost of Street Opening Maps which previous to 1909, was paid from Budget Appropriations or from Corporate Stock

# PROGRESS CHART OF STREET OPENING MAPS



## RULE, DRAFT DAMAGE AND PROFILE MAPS



## FINAL DAMAGE AND FINAL BENEFIT MAPS

RULE MAPS SHOWN THUS



DRAFT DAMAGE MAPS SHOWN THUS



PROFILE MAPS SHOWN THUS



FINAL DAMAGE MAPS SHOWN THUS



" BENEFIT " " " "



NOTE: Previous to 1909 the Cost of Street Opening Maps was paid from Budget Appropriations or from Carpenter's Stock.

# COMPARATIVE YEARLY STATEMENT

## STREET OPENING MAPS

YEAR	TENTATIVE MAPS ADOPTED		FINAL SECTIONS ADOPTED		RULE		DRAFT DAMAGE		PROFILES		FINAL DAMAGE		FINAL BENEFIT	
	No.	AREA IN ACRES	N <sup>o</sup>	AREA IN ACRES	N <sup>o</sup>	LENGTH IN FEET	N <sup>o</sup>	LENGTH IN FEET	N <sup>o</sup>	LENGTH IN FEET	N <sup>o</sup>	LENGTH IN FEET	N <sup>o</sup>	AREA IN ACRES
1908	1	8450	1	367	54	167 172	74	203 517	66	192 083	33	713 62	26	
1909			18	6606	69	182 873	66	241 684	49	182 104	27	436 283	25	1605
1910			18	6606	40	130 476	45	158 633	36	127 573	52	186 755	57	4078
1911	1	4560	10	3670	59	215 965	71	255 405	48	173 455	70	272 703	72	4211
1912	4	13730	15	5500	69	299 309	82	305 359	52	187 197	70	218 882	52	2984
1913	2	14300	4	1468	70	241 766	80	290 149	61	171 448	71	225 631	59	3729
1914	2	5500	8	2386	42	183 627	51	222 577	35	103 202	51	176 673	52	6900
1915	1	6470	12	2906	66	175 754	67	178 814	17	45 696	43	168 408	44	4861

## EXPENDITURES

YEAR	ALTERATION MAPS AND SPECIAL MAPS		MONUMENTS		FIELD WORK				LEGAL STATUS		EXPENDITURES	
	TRANSMITTED FOR ADOPT.	TRANSMITTED FOR FILING	SET	RE-SET	BUILDINGS LOCATED	FEET OF MEASUREMENTS	ANGLES TURNED	FEET OF STREET LEVELS	REPORTS	STREET AND PARK OPENING FUND	BUDGET AND CORPORATE STOCK	STREET AND PARK OPENING FUND
1908	17	9	1123	334	7048	8646 595	12714	277 949			318 828 58	
1909	25	17	832	466	6161	8070 960	9719	852 187	196		289 426 28	30159.83
1910	25	18	570	634	3215	7722 357	9962	17 53 372	312		222 956.91	46154.06
1911	71	30	354	253	3114	6150 387	10121	275734	960		159 506.11	62 568.43
1912	68	41	586	131	4399	7113 234	14736	985004	1037		176 836.84	49 350.56
1913	90	54	604	185	3326	6085 248	11554	158 531	1224		191 726.77	45 378.34
1914	75	51	783	139	1446	6762 076	12404	446 040	1244		197 845.19	32 099.56
1915	70	66	1287	258	2627	6523 996	13785	771 764	1301		* 204 930.51	29 240.35

\* Includes Special Revenue Bonds \$100.00

Heretofore, owners whose property the City has thus taken have had to wait the completion of the condemnation proceedings before they could collect their claims against the City. Hereafter, they may collect as much as 60 per cent. of their claim, as estimated by the City's real estate experts, on application to the Board of Estimate and Apportionment following its resolution to vest.

To forestall any question as to the legality of condemnation proceedings it had already instituted, the Board of Estimate and Apportionment passed resolutions for their reinstitution to conform with the new statute. Twenty-five Queens proceedings were thus affected, necessitating the amendment of the several maps of each proceeding to conform therewith.

In the proceeding to acquire Queens Boulevard, all of the maps which the Topographical Bureau is required to furnish have been completed. The final damage and the benefit maps were forwarded to the Corporation Counsel on March 31.

Last year's report mentioned that we proposed printing the final damage and the benefit maps, instead of having them made by draughtsmen as heretofore. This method is now in operation, and is more than 50 per cent. cheaper than the old method.

Since November, in accordance with your instructions, we have been selling to affected property owners blueprints of damage maps. This has proved a great boon to them, showing them exactly how their property is affected, and enabling them to plan the improvement of their property on the completion of the proceeding. The price of these prints is 5 cents a square foot on paper, 10 cents on cloth.

#### GRADE CHARTS.

On December 10 the Board of Estimate and Apportionment approved our first Grade Chart. The idea of preparing Grade Charts originated with this administration. They are similar in the area which they comprehend, and the number by which they are designated, to the Final Section Maps. They officially fix the grade of streets at curb-line and house-line, and are intended to prevent the breaks which occur in these grades, when their reduction from the centre-line grades is left to private surveyors, using different formulas for their determination.

#### CESSIONS.

The law that changed the conduct of street opening proceedings, and provided for partial payments in vested proceedings, also changed the mode of ceding private property within street lines to the City. The old statute obligated the City to accept all street cessions, provided they carried to the center line of the street, regardless of whether they were to the City's advantage or not.

Under the new statute the Board of Estimate and Apportionment has full power to accept or reject cessions and to fix the exemption from assessment that shall be accorded to the grantors of accepted cessions.

For the guidance of owners desiring to cede the bed of their streets to the City the Board of Estimate and Apportionment has formulated a set of rules. Copies of these rules may be obtained upon application to this Bureau.

The rule that most immediately concerns this Bureau is article 5, paragraph III., which reads:

"The President of the Borough in which the property to be conveyed is located will, upon application from a grantor, prepare a technical description of the property for incorporation in the deed, providing that proper data is submitted to him to show the relation of the bounding lines of the property to the street lines as laid out upon the City Map."

We are at all times ready and willing to aid owners, as directed by this rule, and to such further extent as may be in our power.



## OLD RECORDS.

At the time of last year's report, the prospect of our obtaining a copy of the old records of the several civil subdivisions of Queens extant prior to consolidation, was very bright. The Comptroller, in whose custody they are, in reporting against our request for an issue of special revenue bonds, wherewith to copy them, gave us to understand that the work would be done by and at the expense of his office. In fact, his office did make a start at their copying, but we have reason to believe that little progress has been made.

The value of these records to us lies in the fact that they contain a wealth of information regarding the streets of the Borough. They instance cases of streets legally acquired by formal proceedings, now long ago forgotten, but essential of immediate knowledge, when contemplating improvement. In addition, they contain the evidences of street user, so important to quote to the Corporation Counsel, when we seek to establish the fact that the City has title to a street by easement or dedication.

In plain words, it is necessary for us to be conversant with these old records that there may be no duplication of condemnation proceedings, and for the establishment of dedication, thereby avoiding the need of a legal opening proceeding.

## STREET OPENING COST.

An analysis of the administrative cost of the street opening proceedings in this Borough confirmed during the past five years shows the average cost of a total of 107 proceedings to have been \$1.39 per front foot, or \$27.80 for a 20-foot lot. These figures do not include awards, which is an item that varies from nothing to thousands, depending on the damage done to buildings and other private property.

The following tabulation gives the administrative cost, year by year, on which the above total average is based:

Year.	Number of Proceedings.	Average Cost Per Front Foot.	Average Cost Per 20-Foot Lot.
1911.....	16	\$1.66	\$33.20
1912.....	24	1.06	21.20
1913.....	23	1.18	23.60
1914.....	25	1.93	38.60
1915.....	19	1.15	23.00

## SUBSURFACE STANDARDIZATION.

On the recommendation of the Budget Committee of the Board of Estimate and Apportionment, the former Bureau of Substructures and Franchises merged with the Topographical Bureau on January 1. Standard subsurface plans which assign fixed routes for the installation of sewer, water, gas, electric and other ducts have since been completed, and are now with the Board of Estimate and Apportionment for adoption, following which we will be able to control the installation of all subsurface structures.

These plans have received the support of the public service corporations, whose ducts underlie the surface of streets, all of whom have shown a commendable spirit of co-operation that the baneful confusion which has followed promiscuous subsurface installations in the older Boroughs may be avoided in Queens.

## THE PUBLIC.

To better serve the interests of the public, and to promote the welfare of the Borough of Queens, we are always ready and willing to consider and to apply, where practicable, suggestions and criticisms by the public. And for the use of the public,

all the maps and information in the possession of this office are at their disposal. Lithograph copies of all the more important maps can be purchased at the nominal price fixed by the Board of Estimate and Apportionment; blueprints of the maps which have not been lithographed can be had for the cost of printing, or sketches can be made by anyone. All the information concerning street titles and the procedure for ceding and dedicating them to the City can also be had at this Bureau.

#### OFFICE ORGANIZATION.

The employees of the Topographical Bureau, on December 31, 1915, numbered 109 technical men, 40 per diem men and a clerical force of 10—total, 159. The total cost for maintenance for the year 1915 was \$234,170.86—\$203,830.51 chargeable to the "Budget" or to "Corporate Stock," \$1,100 to "Special Revenue" bonds, and \$29,240.35 to Street and Park Opening Fund.

A few words regarding the organization of the Topographical Bureau may facilitate a better understanding of the details contained in the following pages of the report. The work of this office falls naturally into three divisions: Division of the Borough Map, Division of Street Opening and Division of Substructures and Franchises.

The duty of the Division of the Borough Map is, quoting from the Charter, "To prepare a map of that part of the territory embraced within the Borough, of which a map or plan has not heretofore been finally established and adopted"; the duty of the Division of Street Openings is to make the surveys and maps required by the Commissioners of Estimate and Assessment in street opening proceedings, and the duty of the Division of Substructures and Franchises is to survey and record all substructures in the streets of the Borough, and to be cognizant of all franchises affecting the Borough.

For the economic and efficient prosecution of the work of the Bureau, each of these divisions is further subdivided as follows:

#### DIVISION OF THE BOROUGH MAP.

*Monumenting Corps*—Charged with all the surveys and field work incidental to the preparation of the final map and of the monumenting of the Borough.

*Computing Corps*—Charged with all the computations incidental to the preparation of the final map of the Borough.

*Draughting Corps*—Charged with all the draughting incidental to the preparation of the final map of the Borough.

#### DIVISION OF STREET OPENINGS.

*Surveying Corps*—Charged with all the surveys necessary to prepare the maps required by the Commissioners of Estimate and Assessment.

*Office Corps*—Charged with all the computations and draughting necessary to prepare the maps required by the Commissioners of Estimate and Assessment.

#### DIVISION OF SUBSTRUCTURES AND FRANCHISES.

*Field Corps*—Charged with a subsurface survey of the streets of the Borough.

*Office Corps*—Charged with recording all the data and information relating to the subsurface of the streets of the Borough; with the assignment of subsurface space for the installation of improvements therein; with the approval of permits affecting the subsurface of the streets, and with the recording of all franchises affecting the Borough of Queens.

In addition to the several corps mentioned above, there is a small corps engaged in gathering data, and in making reports on the legal status of the streets of the Borough.



## DIVISION OF THE BOROUGH MAP.

### TENTATIVE MAPS APPROVED BY THE BOARD OF ESTIMATE AND APPORTIONMENT.

"Idlewild"—Bounded approximately by 128th Street, Rockaway Boulevard, 137th (Nicholas) Avenue, 172d (Golder) Street, 140th (Higbie) Avenue, 181st Street (Dorwin Avenue), 143d Avenue (Harvard Boulevard), 183d Street (Erasmus Avenue), 144th (Mills) Avenue, 184th Street, North Conduit Avenue, 204th Street, South Conduit Avenue, Edgewood Street, Brookville Boulevard (Foster's Meadow Road), Mayda Road, 147th Avenue, Rosedale Boulevard (Rosedale Avenue, Ocean Avenue), Hungry Harbor Road, the boundary line of The City of New York and Jamaica Bay. Approved December 23, 1915.

### FINAL SECTIONS (ATLAS SHEETS) APPROVED BY THE BOARD OF ESTIMATE AND APPORTIONMENT.

\*No. 30—Evergreen, bounded approximately by Cornelia Street, Cypress Avenue, Putnam Avenue, Forest Avenue, Putnam Avenue, Anthon Avenue, Hughes Street, Buchman Avenue, Catalpa Avenue, Fresh Pond Road, Cypress Hills Road, Slocum Street, Cooper Avenue, Dill Place, Alden Avenue, Cooper Avenue and Wyckoff Avenue (367 acres). Approved May 28, 1915.

No. 48—College Point, bounded approximately by the East River, Lang Place, Eldorado Street, Villaview Road, Felicity Street, Boston Street, Haviland Street, Grover Avenue, Jameson Street, Inman Avenue, Lebanon Street, Kinney Avenue, Kelford Street and Mulford Avenue (106 acres). Approved December 23, 1915.

No. 113—Union Course, bounded approximately by the Brooklyn Borough Line, Pitkin Avenue, 77th Street and its prolongation, South Conduit Avenue, 76th Street and Blake Avenue (15 acres). Approved June 25, 1915.

No. 114—Aqueduct, bounded approximately by the Brooklyn Borough Line, Fairfield Avenue, Amber Street, Vandalia Avenue, Genesee Street, Dunham Avenue, Emerald Street, Egan Avenue, Forbell Avenue, and Farmington Street and its prolongation (100 acres). Approved May 14, 1915.

No. 116—Woodhaven, bounded approximately by 79th Street, Pitkin Avenue, 85th (Perkins) Street, Liberty Avenue, 84th (West) Street, 102d Avenue (Shoe and Leather Street), 86th (Ferry) Street, 101st Avenue (Broadway), 88th Street (Park Place), 97th Avenue, 90th Street (Morris Avenue), 101st Avenue (Broadway), 92d Street (Bigelow Place), 103d (Belmont) Avenue, Woodhaven (Flushing) Avenue, Rockaway Boulevard, 99th Street (Ocean Avenue), 109th (Park) Avenue, 98th Street (Oakley Avenue), Sutter Avenue, 95th Street, 133d Avenue, Woodhaven Avenue (Woodhaven Road), 135th Avenue, Pitkin Avenue, Whitelaw Avenue, North Conduit Avenue, 84th Street and 133d Avenue (367 acres). Approved December 23, 1915.

No. 124—Aqueduct, bounded approximately by 149th Avenue, Redding Street (Woodhaven Road), 135th Avenue, 95th Street, 133d Avenue, 96th Street, Sutter Avenue, Plattwood Avenue, 103d Street, Sutter Avenue, 109th Place, 133d (Higbie) Avenue, 112th (Chestnut) Street, 135th (Priscilla) Avenue, 111th Street (Greenwood Avenue), 150th Avenue, 110th Street, North Conduit Avenue (Old South Road), Hawtree Avenue (Deer Street), 155th (Dengler) Avenue, Bridgeton (Portland) Avenue, South Conduit Avenue, Woodhaven Avenue and North Conduit Avenue (367 acres). Approved December 23, 1915.

No. 174—Ramblersville, bounded approximately by the Brooklyn Borough Line, Sheridan Avenue, Woodstock Street, Forbell Avenue, Egan Avenue, Sapphire Street, Dunham Avenue, Merrimac Avenue, Egan Avenue, Potomac Street, Flynn Avenue, Boyd Avenue, Grimm Avenue, Vineyard Avenue, Horstmann Avenue, Canal Avenue and Sheridan Avenue (237 acres). Approved May 14, 1915.

\*Reapproved.

No. 176—Ramblersville, bounded approximately by Michigan Avenue, Grimm Avenue, Woodhaven Avenue, Flynn Avenue, Killarney Avenue, Egan Avenue, Bridgeton Avenue, Dunham Avenue, Delgado Street, Fairfield Avenue, Lizzard Street, Flynn Avenue, Klondike Street, Sheridan Avenue, Woodhaven Avenue and Horstmann Avenue (300 acres). Approved May 28, 1915.

No. 177—Ramblersville, bounded approximately by Canal Avenue, Horstmann Avenue, Galveston Avenue and Sheridan Avenue (260 acres). Approved June 11, 1915.

No. 231—Far Rockaway, bounded approximately by Beach 32d Street, Dickens Avenue, Beach 29th Street North, Ocean Crest Avenue, Beach 25th Street, Cornaga Avenue, Beach 24th Street North, Bay Park Avenue, Dickens Avenue, Mott Avenue, Gaffrey Street, Beach 17th Street, Seagirt Avenue, Beach 19th Street, Ocean Promenade, Beach 22d Street, Seagirt Avenue, Beach 25th Street, Edgemere Avenue, Beach 28th Street, Deerfield Road, Beach 30th Street North, and Brookhaven Avenue (367 acres). Approved January 8, 1915.

No. 313—Blissville, bounded approximately by Nassau River (Newtown Creek), Greenpoint Avenue, Review Avenue, and Thomas Street and its prolongation (53 acres). Approved October 1, 1915.

No. 314—Blissville, bounded approximately by Nassau River (Newtown Creek), Dutch Kills Basin, Ashburn Street, Skillman Avenue, Thomson Avenue, Van Dam Street, Nelson Avenue, Harold Avenue, Anable Avenue, Van Pelt Street, Greenpoint Avenue, Bradley Avenue, Howard Street, Review Avenue and Greenpoint Avenue (367 acres). Approved October 1, 1915.

FINAL SECTIONS (ATLAS SHEETS) BEFORE THE BOARD OF ESTIMATE AND APPORTIONMENT PENDING APPROVAL.

No. 1—Laurel Hill (reapproval).

No. 188—Aqueduct.

No. 189—Aqueduct.

No. 216—Arverne.

No. 227—Far Rockaway.

FINAL SECTIONS (ATLAS SHEETS) CERTIFIED BY THE BOARD OF ESTIMATE AND APPORTIONMENT AND FILED AT THIS OFFICE.

No. 30—Evergreen, bounded approximately by Cornelia Street, Cypress Avenue, Putnam Avenue, Forest Avenue, Putnam Avenue, Anthon Avenue, Hughes Street, Buchman Avenue, Catalpa Avenue, Fresh Pond Road, Cypress Hills Road, Slocum Street, Cooper Avenue, Dill Place, Alden Avenue, Cooper Avenue and Wyckoff Avenue. Filed October 22.

No. 31—Evergreen, bounded approximately by the Brooklyn Borough Line, the Evergreen Branch of the Long Island Railroad and the Manhattan Beach Division of the Long Island Railroad. Filed March 25.

No. 113—Union Course, bounded approximately by the Brooklyn Borough Line, Pitkin Avenue, 77th Street and its prolongation, South Conduit Avenue, 76th Street and Blake Avenue. Filed October 22.

No. 114—Aqueduct, bounded approximately by the Brooklyn Borough Line, Fairfield Avenue, Amber Street, Vandalia Avenue, Genesee Street, Dunham Avenue, Emerald Street, Egan Avenue, Forbell Avenue and Farmington Street and its prolongation. Filed October 22.

No. 115—Aqueduct, bounded approximately by North Conduit Avenue, Boyd Avenue, Stanley Avenue, Oswego Street, Wortman Avenue, Niagara Street, Cozine Avenue, Kennebec Street, Fairfield Avenue, Iroquois Street, Vandalia Avenue, Sapphire Street, Fairfield Avenue and the Brooklyn Borough Line. Filed March 25.

No. 125—Aqueduct, bounded approximately by Iroquois Street, Fairfield Avenue, Merrimac Avenue, Wortman Avenue, Boyd Avenue, South Conduit Avenue, Galveston Avenue, Cozine Avenue, Channel Street, Vandalia Avenue, Cohancy Avenue, Dunham Avenue, Killarney Avenue, Flynn Avenue, Woodhaven Avenue, Grimm Avenue, Potomac Street, Egan Avenue, Merrimac Avenue and Dunham Avenue. Filed March 25.

No. 127—Dunton, bounded approximately by Passaic Street, Roanoke Avenue, Miriam Avenue, Liberty Avenue, Baker Avenue, Blanco Place, Van Wyck Avenue, Warburton Avenue, Atfield Avenue, Vistula Avenue, Warren Street, Ulster Avenue, Shoshone Street, Tuckahoe Avenue, Quebec Street and Suwanee Avenue. Filed March 25.

No. 174—Ramblersville, bounded approximately by the Brooklyn Borough Line, Sheridan Avenue, Woodstock Street, Forbell Avenue, Egan Avenue, Sapphire Street, Dunham Avenue, Merrimac Avenue, Egan Avenue, Potomac Street, Flynn Avenue, Boyd Avenue, Grimm Avenue, Vineyard Avenue, Horstmann Avenue, Canal Avenue and Sheridan Avenue. Filed October 22.

No. 231—Far Rockaway, bounded approximately by Beach 32d Street, Dickens Avenue, Beach 29th Street North, Ocean Crest Avenue, Beach 25th Street, Cornaga Avenue, Beach 24th Street North, Bay Park Avenue, Dickens Avenue, Mott Avenue, Caffrey Street, Beach 17th Street, Seagirt Avenue, Beach 19th Street, Ocean Promenade, Beach 22d Street, Seagirt Avenue, Beach 25th Street, Edgemere Avenue, Beach 28th Street, Deerfield Road, Beach 30th Street North and Brookhaven Avenue. Filed March 25.

#### FINAL SECTIONS (ATLAS SHEETS) WITH THE BOARD OF ESTIMATE AND APPORTIONMENT FOR CERTIFICATION AND FILING.

No. 313—Blissville, bounded approximately by Nassau River (Newtown Creek), Greenpoint Avenue, and Thomas Street.

No. 314—Blissville, bounded approximately by Nassau River (Newtown Creek), Dutch Kills Basin, Ashburn Street, Skillman Avenue, Thomson Avenue, Van Dam Street, Nelson Avenue, Harold Avenue, Anable Avenue, Van Pelt Street, Greenpoint Avenue, Bradley Avenue, Howard Street, Review Avenue and Greenpoint Avenue.

#### FINAL SECTIONS (ATLAS SHEETS) IN COURSE OF PREPARATION.

##### *Being surveyed—*

No. 49. College Point....	60% completed.	No. 138. Jamaica .....	65% completed.
No. 53. College Point....	50% completed.	No. 140. Baisley Pond....	50% completed.
No. 57. Whitestone .....	50% completed.	No. 141. St. Albans.....	80% completed.
No. 59. Whitestone .....	50% completed.	No. 142. St. Albans.....	20% completed.
No. 60. Whitestone .....	60% completed.	No. 143. Hollis .....	20% completed.
No. 69. Whitestone .....	90% completed.	No. 144. Hollis .....	20% completed.
No. 70. Whitestone .....	15% completed.	No. 148. Queens .....	30% completed.
No. 74. Whitestone .....	50% completed.	No. 161. Queens .....	40% completed.
No. 81. Jamaica .....	10% completed.	No. 197. Belle Harbor....	90% completed.
No. 85. Bayside .....	60% completed.	No. 198. Belle Harbor....	80% completed.
No. 86. Bayside .....	50% completed.	No. 199. Neponsit .....	80% completed.
No. 120. Jamaica .....	15% completed.	No. 201. Belle Harbor....	80% completed.
No. 130. Jamaica (S. of Hillside Ave.).	80% completed.	No. 215. Hammel .....	75% completed.
No. 133. Hollis .....	5% completed.	No. 219. Arverne .....	80% completed.
No. 134. Hollis .....	40% completed.	No. 230. Edgemere .....	75% completed.
No. 135. Jamaica .....	55% completed.	No. 232. Far Rockaway...	80% completed.

*Being computed—*

No. 53. College Point.... 34% completed.	No. 120. Jamaica (S. of Hillside Ave.). 10% completed.
No. 55. College Point....100% completed.	No. 121. Dunton ..... 75% completed.
No. 56. College Point.... 71% completed.	No. 129. Jamaica (S. of Hillside Ave.). 30% completed.
No. 57. College Point.... 13% completed.	No. 136. Cedar Manor.... 20% completed.
No. 60. College Point.... 5% completed.	
No. 61. College Point.... 75% completed.	

*Being draughted—*

No. 54. College Point..... Not started.	No. 202. Rockaway Park.. 75% completed.
No. 127. Jamaica (Northerly portion) ..... Not started.	No. 217. Seaside ..... 75% completed.
No. 128. Jamaica ..... Not started.	No. 226. Far Rockaway...100% completed.

SPECIAL FINAL MAPS APPROVED BY THE BOARD OF ESTIMATE AND APPORTIONMENT.

Map establishing the lines and grades of *South Street*, from Waltham Street to New York Avenue. (T. B. No. 281.) Approved July 1.

Map establishing the lines and grades of *Yukon Avenue*, from Thames Street to Baker Avenue. (T. B. No. 347.) Approved June 8.

Map establishing the lines and grades of *166th Street*, from Gilman Avenue to Hillside Avenue. (T. B. No. 459.) Approved May 14.

Map establishing the lines and grades of *191st Street*, from Hillside Avenue to Palo Alto Avenue. (T. B. No. 480.) Approved March 5.

Map establishing the lines and grades of *Rocton Street*, from Van Wyck Avenue to Roseville Avenue. (T. B. No. 500.) Approved June 25.

Map establishing the lines and grades of *79th Street* and *80th Street*, from Sutter Avenue to Blake Avenue. (T. B. No. 519.) Approved May 28.

Map establishing the lines and grades of *Farmers Avenue*, from 190th Street to 99th Avenue. (T. B. No. 556.) Approved December 3.

SPECIAL FINAL MAPS BEFORE THE BOARD OF ESTIMATE AND APPORTIONMENT PENDING APPROVAL.

Map establishing the lines and grades of *Jackson Avenue*, from Cemetery Lane to City Boundary Line. Dater May 12, 1915. (T. B. No. 121.)

Map establishing the lines of *Puntine Street*, from South Street to Cumberland Street. Dated May 1, 1912. (T. B. No. 300.)

Map establishing a street system for the *Queens-Hollis Section*. Dated May 14, 1914. (T. B. No. 458.)

Map establishing the lines and grades of *New York Avenue*, from South Street to Baisley Avenue. Dated June 15, 1914. (T. B. No. 470.)

Map establishing the lines and grades of *Boorum Avenue*, from Bayside Avenue to the Whitestone Division of the Long Island Railroad. Dated August 11, 1914. (T. B. No. 487.)

Map establishing the lines and grades of *New York Avenue*, from Baisley Avenue to Rockaway Road. Dated August 21, 1914. (T. B. No. 490.)

Map establishing the lines and grades of *Grand Central Parkway*, from Queens Boulevard to the Nassau County Line. Dated May 19, 1915. (T. B. No. 538.)

Map establishing the lines and grades of *Oberlin Street*, from Mulford Avenue to Willets Point Road. Dated October 8, 1915. (T. B. No. 545.)

Map establishing the lines and grades of *Union Hall Street*, from South Street to Brinkerhoff Avenue. Dated December 11, 1915. (T. B. No. 548.)

Map establishing the lines and grades of *195th Street*, from 98th Avenue to 99th Avenue. Dated December 11, 1915. (T. B. No. 574.)

Map showing the proposed lines and grades of *Jamaica Bay Boulevard*, from Sheridan Avenue to Rockaway Beach Boulevard. Dated August 16, 1915. (T. B. No. 577.)

Map establishing the lines and grades of *Winsted Avenue*, from Jamaica Avenue to Liberty Avenue. Dated December 17, 1915. (T. B. No. 586.)

Map establishing a *Board Walk* adjacent to the Long Island Railroad, between Laurel Hill Boulevard and Hobson Avenue. Dated November 19, 1915. (T. B. No. 587.)

SPECIAL FINAL MAPS CERTIFIED BY THE BOARD OF ESTIMATE AND APPORTIONMENT, AND  
FILED AT THIS OFFICE.

Map establishing the lines and grades of *South Street*, from Waltham Street to New York Avenue. (T. B. No. 281.) Filed September 17.

Map establishing the lines and grades of *Yukon Avenue*, from Thames Street to Baker Avenue. (T. B. No. 347.) Filed March 30.

Map establishing the lines and grades of *166th Street*, from Gilman Avenue to Hillside Avenue. (T. B. No. 459.) Filed July 24.

Map establishing the lines and grades of *191st Street*, from Hillside Avenue to Palo Alto Avenue. (T. B. No. 480.) Filed June 10.

Map establishing the lines and grades of *Rocton Street*, from Van Wyck Avenue to Roseville Avenue. (T. B. No. 500.) Filed September 17.

Map establishing the lines and grades of *79th Street* and *80th Street*, from Sutter Avenue to Blake Avenue. (T. B. No. 519.) Filed July 24.

SPECIAL FINAL MAPS NOT COMPLETED.

*Being surveyed—*

*194th Street*, from Jamaica Avenue to 109th Avenue; *198th Street*, from Jamaica Avenue to Hollis Avenue, and *202d Street*, from Jamaica Avenue to Hollis Avenue. (T. B. No. 540.)

*Ocean Parkway* and proposed park from Beach 126th Street to 100 feet west of B. 141st Street. (T. B. No. 601.)

*Being computed—*

*Poppenhausen Avenue*, from Beechhurst Avenue to Bell Avenue. (T. B. No. 544.) Partially completed in final sections.

*Beach 71st Street*, from Long Island Railroad to Amstel Boulevard. (T. B. No. 550.) Waiting field work.

*Ulster Avenue*, from Sutphin Road to Smith Street. (T. B. No. 553.) Started surveys, incomplete.

*Bell Avenue*, from Broadway to Crocheron Avenue. (T. B. No. 554.) Waiting field work.

*Parkman Avenue*, from Bell Avenue to Bulkhead Line of Little Neck Bay. (T. B. No. 558.) Not started.

Elimination of *Catch Basin* and the establishment of one west of Norton Basin. (T. B. No. 559.) 50 per cent. completed.

*Jonathan Street*, from Oakridge Avenue to Ridgeway Avenue. (T. B. No. 590.) Waiting field work.

*Freehold Street*, from Ulster Avenue to Baisley Avenue. (T. B. No. 594.) Waiting field work.

*223d Street*, from 110th Avenue to Hempstead Avenue. (T. B. No. 607.) 50 per cent. completed.

*Being draughted—*

*Phraner Avenue*, from South Street to Yukon Avenue. (T. B. No. 593.)

*Grand Central Parkway*, inclusive of small parks. (T. B. No. 538.) Not started.

GRADE CHARTS APPROVED BY THE BOARD OF ESTIMATE AND APPORTIONMENT.

No. 4. Woodside, bounded approximately by Gosman Avenue, Rostrom Avenue, Bliss Place, 16th Avenue, Patterson Avenue, 5th Street, Burnside Avenue, 9th Street, Jackson Avenue, 7th Street, Hayes Avenue, 6th Street, Stryker Avenue, 5th Street, Woodside Avenue and Middleburg Avenue. Approved December 10, 1915.

GRADE CHARTS BEFORE THE BOARD OF ESTIMATE AND APPORTIONMENT PENDING APPROVAL.

No. 10. Woodside.

GRADE CHARTS IN COURSE OF PREPARATION.

- No. 11. Woodside. 99 per cent. completed.
- No. 30. Evergreen. 65 per cent. completed.
- No. 110. Brooklyn Manor. 35 per cent. completed.
- No. 111. Woodhaven. 60 per cent. completed.
- No. 118. Richmond Hill. 5 per cent. completed.
- No. 119. Richmond Hill. Just started.

ALTERATION MAPS APPROVED BY THE BOARD OF ESTIMATE AND APPORTIONMENT.

Map altering the street system in the territory bounded by the Brooklyn Borough Line, Ashland Street, Benedict Avenue, Ferriss Street, Freedom Avenue, Ferriss Place, Clark Avenue and Jamaica Avenue. (T. B. No. 329.) Approved March 19.

Map altering the grades of *Mueller Street*, from Clinton Avenue to Grand Avenue. (T. B. No. 368.) Approved January 8.

Map establishing the lines and grades of *Aurelia Place*, from Newtown Avenue to Flushing Avenue. (T. B. No. 407.) Approved April 30.

Map altering the lines of *Audley Street*, from Beverley Road to the Long Island Railroad. (T. B. No. 409.) Approved January 8.

Map altering the lines and grades of *Polk Avenue*, from Junction Avenue to Tie-mann Avenue. (T. B. No. 424.) Approved June 11.

Map altering the grades in the territory bounded by Liberty Avenue, Huntington Street, Digby Street, Liberty Avenue, Hudson Street, Pitkin Avenue, Genesee Street, Sutter Avenue, North Conduit Avenue and the Brooklyn Borough Line. (T. B. No. 425.) Approved March 19.

Map altering the lines of *Larue Place*, from Way Avenue to Waldron Street. (T. B. No. 426.) Approved February 5.

Map altering the lines of *Christie Street*, from Alstyne Avenue to Waldron Street. (T. B. No. 427.) Approved February 19.

Map altering the grades of *Rodman Street*, from Otis Avenue to 51st Street. (T. B. No. 428.) Approved February 5.

Map closing *Trains Meadow Road*, from Hayes Avenue to Baxter Avenue; *Baxter Avenue*, from Trains Meadow Road to Leverich Avenue, and *Leverich Avenue*, from Baxter Avenue to Elmhurst Avenue. (T. B. No. 429.) Approved July 1.

Map altering the grades of *Grand Avenue*, from Steinway Avenue to Eleventh Avenue. (T. B. No. 430.) Approved March 19.

Map altering the lines of *Fulton Street*, from Herald Avenue to Bedford Avenue. (T. B. No. 436.) Approved April 1.

Map establishing the lines and grades of *Chickering Place*, from Mitchell Avenue to Alice Place. (T. B. No. 452.) Approved March 5.

Map establishing the lines and grades of *Nassau Avenue*, from Grand Street to Corinth Street. (T. B. No. 453.) Approved July 1.

Map altering the grades of *Beddard Street*, from Parsons Avenue to Percy Street. (T. B. No. 455.) Approved February 26.



Map altering the lines and grades of *Grand Avenue*, from 33d Street to 40th Street. (T. B. No. 457.) Approved May 14.

Map altering the grades of *California Avenue*, from Jaggar Avenue to McDonald Street. (T. B. No. 460.) Approved March 19.

Map altering the lines of *Schurz Avenue*, from Ditmars Avenue to Berrian Avenue. (T. B. No. 461.) Approved February 19.

Map altering the grades of *Broadway*, at Eighth Street. (T. B. No. 465.) Approved April 1.

Map altering the grades of *Steinway Avenue*, from Wolcott Avenue to Ditmars Avenue. (T. B. No. 466.) Approved June 11.

Map altering the grades of *Van Alst Avenue*, from 13th Street to South Jane Street. (T. B. No. 467.) Approved April 1, 1915.

Map altering the grades of *Toledo Street*, from Gerry Avenue to Ivy Street. (T. B. No. 468.) Approved June 11.

Map altering the lines of *Proctor Street*, from St. Germans Street to Edsall Avenue. (T. B. No. 469.) Approved June 11.

Map altering the grades of *Firth Avenue*, from Whitlock Avenue to Dorothy Place. (T. B. No. 471.) Approved June 11.

Map establishing the street lines and grades along the *Lutheran Cemetery Branch* of the *Brooklyn Rapid Transit*, from the Brooklyn Borough Line to Metropolitan Avenue. (T. B. No. 476.) Approved June 25.

Map altering the lines of *Justice Street*, from Broadway to Junction Avenue. (T. B. No. 478.) Approved November 12.

Map correcting a block dimension of *Burrough Avenue*, between Railroad Avenue and Garfield Street. (T. B. No. 484.) Approved June 25.

Map reducing the width of *Broadway*, from Baxter Avenue to Queens Boulevard. (T. B. No. 488.) Approved April 30.

Map altering the lines of *Brevoort Street*, from Cuthbert Place to Metropolitan Avenue. (T. B. No. 494.) Approved July 1.

Map altering the grades of *Queens Boulevard*, from Grand Street to Hillside Avenue. (T. B. No. 495.) Approved November 12.

Map altering the grades of Nelson Avenue, from Hulst Street to Madden Street. (T. B. No. 496.) Approved March 5.

Map establishing the lines of the streets crossing the Long Island Railroad (Montauk Division), between Forest Park and Jamaica Avenue. (T. B. No. 497.) Approved April 30.

Map altering the lines of *Lawn Avenue*, *Freedom Avenue* and *McCormick Avenue*, from Roanoke Avenue to Liberty Avenue. (T. B. No. 498.) Approved December 3.

Map establishing the lines of *Liberty Avenue*, from Blakely Street to Carlisle Street. (T. B. No. 499.) Approved April 16.

Map altering the grades of *Franklin Place*, from Kissena Road to Macdonald Street. (T. B. No. 501.) Approved October 1.

Map altering the lines of Calamus Avenue, from Carroll Place to Fisk Avenue. (T. B. No. 505.) Approved October 15.

Map showing a change in the lines of *Willets Point Road*, from Roosevelt Avenue to Parsons Avenue. (T. B. No. 506.) Approved December 10.

Map reducing the width of *Lambertville Avenue*, from Sutphin Road to Merrick Road. (T. B. No. 508.) Approved April 1.

Map closing the streets across and near the Main Line of the Long Island Railroad, between Fifth Street and Medford Street. (T. B. No. 509.) Approved April 1.

Map altering the grades of *Seventh Avenue*, from Grand Avenue to Flushing Avenue. (T. B. No. 510.) Approved October 1.

Map altering the lines and grades of *Roubouts Place*, from Polk Avenue to Broadway. (T. B. No. 512.) Approved June 25.

Map altering the grades of *Sutphin Road*, from Rocton Street to Rockaway Boulevard. (T. B. No. 514.) Approved July 1.

Map altering the lines of *Calamus Avenue*, from Grand Street to Woodhaven Avenue. (T. B. No. 516.) Approved October 15.

Map altering the grades of 124th Street, from Jamaica Avenue to 89th Avenue. (T. B. No. 521.) Approved October 15.

Map altering the lines of 80th Street, from Liberty Avenue to Pitkin Avenue. (T. B. No. 523.) Approved May 28.

Map altering the grades of 129th Street, from Jamaica Avenue to 91st Avenue. (T. B. No. 526.) Approved October 15.

Map altering the lines of *Elmhurst Avenue*, from Broadway to Judge Street. (T. B. No. 533.) Approved October 15.

Map showing a change in the street system within the territory bounded by Fisk Avenue, Fairbanks Avenue, 18th Street, Woodside Avenue, 19th Street, Queens Boulevard and Adam Street. (T. B. No. 557.) Approved November 12.

Map altering the grades of 97th Street and 98th Street, from 97th Avenue to 103d Avenue. (T. B. No. 561.) Approved October 15.

Map altering the grades of *Ulster Avenue*, from Smith Street to Westchester Avenue; of *Westchester Avenue*, from Ulster Avenue to 117th Avenue; of 117th Avenue, from Westchester Avenue to Dearborn Avenue, and of *Dearborn Avenue*, from 117th Avenue to the Nassau County Line. (T. B. No. 563.) Approved November 12.

Map altering the lines of *Corona Avenue*, from Junction Avenue to Alstyne Avenue. (T. B. No. 566.) Approved November 1.

Map altering the grades of 40th Street, from Jackson Avenue to Alstyne Avenue. (T. B. No. 571.) Approved October 1.

Map altering the lines and grades of *Banks Avenue*, from Astoria Avenue to Ditmars Avenue. (T. B. No. 575.) Approved December 10.

Map altering the lines and grades of *Woodside Avenue*, from Middagh Street to Broadway. (T. B. No. 576.) Approved December 23.

Map altering the grades of *Lambertville Avenue*, from Newark Street to New York Avenue, and of *Smith Street*, from Brinkerhoff Avenue to Ulster Avenue. (T. B. No. 592.) Approved November 9.

#### ALTERATION MAPS BEFORE THE BOARD OF ESTIMATE AND APPORTIONMENT PENDING APPROVAL.

Map establishing the pier and bulkhead lines of Newtown Creek, Maspeth Creek, Dutch Kills Creek, East River, Bowery Bay and Flushing Bay. (T. B. No. 308.)

Map altering the grades of *Rene Place*, from Grandview Avenue to Metropolitan Avenue. Dated February 11, 1913. (T. B. No. 348.)

Map altering the grades of *Rawson Street*, from Foster Avenue to Queens Boulevard. Dated April 5, 1913. (T. B. No. 362.)

Map altering the grades of *Purves Street*, from Jackson Avenue to Thomson Avenue. Dated April 16, 1913. (T. B. No. 366.)

Map altering the grades of *Dutch Kills Street*, from Jackson Avenue to the Long Island Railroad. Dated May 3, 1913. (T. B. No. 374.)

Map establishing the lines and grades of *Old Elmhurst Avenue*, from Roosevelt Avenue to Junction Avenue. Dated November 8, 1913. (T. B. No. 412.) (Referred to the Board's Chief Engineer April 1, 1915.)

Map shifting the lines of *Prime Street*, from Hewitt Avenue to Allen Street. Dated November 25, 1913. (T. B. No. 416.) (Referred to Borough President February 20, 1914.)

Map altering the grades of *Ashland Street*, from Diamond Street to Freedom Avenue. Dated January 14, 1914. (T. B. No. 433.)

Map showing four parcels of land at *Clark Street*, to be acquired for a sewer easement. Dated March 10, 1914. (T. B. No. 440.)

Map altering the *United States Bulkhead Line* from Beach 116th Street to the Rockaway Beach Division of the Long Island Railroad. Dated April 17, 1914. (T. B. No. 448.)

Map eliminating *Frederick Street*, from Garrison Avenue to Creek Street. Dated May 28, 1914. (T. B. No. 462.) (Referred to Borough President March 26, 1915.)

Map altering the lines of *Columbine Avenue*, from Laurel Hill Boulevard to Montgomery Avenue. Dated May 9, 1914. (T. B. No. 463.)

Map eliminating *Lurting Street*, from Card Place to Corona Avenue. Dated July 1, 1914. (T. B. No. 475.) (Referred to Committee on City Plan Sept. 17, 1915.)

Map altering the grades of *Trout Street*, from Borden Avenue to Newtown Creek. Dated July 2, 1914. (T. B. No. 477.)

Map altering the lines of *Vermont Avenue*, from Highland Boulevard to Tappen Terrace. Dated September 19, 1914. (T. B. No. 479.) (Referred to the Board's Chief Engineer May 14, 1915.)

Map altering the lines of *44th Street* and *45th Street*, from Sackett Street to Roosevelt Avenue. Dated August 5, 1914. (T. B. No. 482.)

Map reducing the width of *Junction Avenue*, from Burnside Avenue to Coröna Avenue. Dated August 13, 1914. (T. B. No. 483.)

Map altering the lines and grades of *Berlin Avenue* and of *Debevoise Avenue*, from Borden Avenue to Newtown Creek. Dated June 29, 1914. (T. B. No. 485.)

Map reducing the width of *Maure Avenue*, from Jamaica Avenue to Jerome Avenue. Dated September 17, 1914. (T. B. No. 492.)

Map altering the lines and grades of *Yellowstone Avenue*, from Colonial Avenue to Queens Boulevard. Dated Sept. 24, 1914. (T. B. No. 493.)

Map altering the lines of *Opdyke Street*, from Alburtis Avenue to Corona Avenue. Dated December 15, 1914. (T. B. No. 503.)

Map establishing the lines of *Park Lane*, from Myrtle Avenue to Hamilton Place. Dated December 16, 1914. (T. B. No. 504.)

Map altering the grades in the territory bounded by Barclay Street, Wolcott Avenue, Fourth Avenue, Flushing Avenue and Hoyt Avenue. Dated February 18, 1915. (T. B. No. 507.)

Map altering the lines and grades of *Rockaway Boulevard*, from Nebraska Avenue to the Conduit. Dated May 29, 1915. (T. B. No. 511.)

Map altering the grades of *Mueller Street*, from Fisk Avenue to Borden Avenue. Dated March 1, 1915. (T. B. No. 513.)

Map altering the lines of *Sutphin Road*, from Shelton Avenue to Jamaica Avenue. Dated April 12, 1915. (T. B. No. 515.)

Map altering the grades of *Fourth Street*, from East Avenue to Van Alst Avenue. Dated April 15, 1915. (T. B. No. 518.)

Map altering the grades of *Haydock Street*, from Franconia Avenue to California Avenue. Dated April 19, 1915. (T. B. No. 520.)

Map altering the lines of *Seventh Street*, from Stryker Avenue to the Long Island Railroad. Dated April 20, 1915. (T. B. No. 522.)

Map altering the grades of *Baxter Avenue*, from Ithaca Street to Roosevelt Avenue. Dated April 30, 1915. (T. B. No. 524.)

Map altering the grades of *101st Street*, from 95th Avenue to 101st Avenue. Dated May 1, 1915. (T. B. No. 525.)

Map altering the lines and grades of *Metz Avenue*, from Fisk Avenue to 19th Street. Dated July 3, 1915. (T. B. No. 530.)

Map altering the grades of *Boerum Avenue*, from Amity Street to Marston Avenue. Dated July 15, 1915. (T. B. No. 532.)

Map closing *Seventh Street*, at the Long Island Railroad, for a length of 25 feet. Dated June 23, 1915. (T. B. No. 535.)

Map altering the lines of *Woodhaven Avenue*, from Atlantic Avenue to Rockaway Boulevard. Dated August 25, 1915. (T. B. No. 536.)

Map altering the lines and grades of *Sutphin Road*, from Arlington Terrace to Rockaway Boulevard. Dated December 22, 1915. (T. B. No. 537.)

Map altering and establishing the lines and grades of *Jamaica Avenue*, from Lefferts Avenue to Cliffside Avenue. Dated October 9, 1915. (T. B. No. 539.)

Map altering the lines of *Borden Avenue*, from Broad Street to Clermont Avenue. Dated September 28, 1915. (T. B. No. 547.)

Map showing a change in the street system in the territory bounded by Fisk Avenue, Calamus Avenue, Decker Street, Grand Street, La Forge Street and Falkner Street. Dated November 19, 1915. (T. B. No. 549.)

Map altering the street lines in the territory bounded by Beach 25th Street, Fernside Place, Camp Place, White Street, Elk Place, Beach 20th Street, Ocean Promenade, Beach 24th Street and Seagirt Avenue. Dated October 11, 1915. (T. B. No. 551.)

Map showing a change in the street system in the territory bounded by Ridgewood Place, Copeland Avenue, McComb Place, Edsall Avenue, Central Avenue, Speer Street, Grene Avenue, Morton Avenue, Hosack Street, Weisse Avenue, Central Avenue, Metropolitan Avenue, Woodhaven Avenue, Emily Place, Orville Street, Tilden Place, Woodhaven Avenue, Olivia Place, Paulina Place, Woodhaven Avenue and Myrtle Avenue. Dated Sept. 19, 1915. (T. B. No. 555.)

Map altering the lines of *Juniper Avenue*, from Caldwell Avenue to Helen Place. Dated September 29, 1915. (T. B. No. 560.)

Map altering the grades of *109th Street*, from Atlantic Avenue to 101st Avenue. Dated May 28, 1915. (T. B. No. 562.)

Map altering the grades of *87th Avenue*, at 110th Street. Dated May 29, 1915. (T. B. No. 564.)

Map altering the lines of *49th Street*, from Astoria Avenue to Polk Avenue. Dated July 29, 1915. (T. B. No. 565.)

Map altering the lines of *Whittier Place*, from Woodside Avenue to Grout Avenue. Dated September 24, 1915. (T. B. No. 570.) (Referred to Board's Chief Engineer and Borough President December 10, 1915.)

Map altering the grades of *Adriatic Street*, from Collins Avenue to Mary Street. Dated July 9, 1915. (T. B. No. 572.)

Map adjusting and correcting eight block dimensions in the territory bounded by Decatur Street, Forest Avenue, Summerfield Street, Myrtle Avenue, Dill Place, Charlotte Place, Millwood Avenue, Sylvan Street, St. Felix Avenue and Cypress Avenue. Dated July 14, 1915. (T. B. No. 573.)

Map establishing the lines of *Collins Avenue*, across the Long Island Railroad. Dated September 30, 1915. (T. B. No. 579.)

Map altering the grades of *Amity Street*, from Boerum Avenue to Murray Street. Dated October 1, 1915. (T. B. No. 580.)

Map showing a change in the street system in the territory bounded by Grand Street, Nagy Street, Nassau Avenue, Griffenberg Street, Caldwell Avenue, Navy Street, Jansen Avenue, Mazeau Street, Whitlock Avenue and Bittman Street. Dated October 7, 1915. (T. B. No. 581.)

Map showing a change in the street system in the territory bounded by Junction Avenue, South Railroad Avenue, Louona Avenue, Corona Avenue, Sothorn Avenue and Alstyn Avenue. Dated December 7, 1915. (T. B. No. 582.)

Map eliminating the lines of *Saull Street*, from Cromelin Street to Hammel Avenue. Dated October 18, 1915. (T. B. No. 583.)

Map altering the grades in the territory bounded by Reeder Place, Maurice Avenue, Broadway, Corona Avenue, Roach Place, St. James Street, Neil Place, South Railroad Avenue, Gay Street, Corona Avenue, Junction Avenue, Gerry Avenue, Field Place, Martense Street and Queens Boulevard. Dated October 28, 1915. (T. B. No. 589.)

Map altering the grades of *Anable Avenue*, from Jackson Avenue to the Long Island Railroad. Dated December 6, 1915. (T. B. No. 596.)

Map altering the lines of *Liberty Avenue*, from Church Street to Lefferts Avenue. Dated November 12, 1915. (T. B. No. 597.)

Map altering the grades of *Harvard Avenue*, from Hillside Avenue to Candor Street. Dated December 21, 1915. (T. B. No. 603.)

ALTERATION MAPS CERTIFIED BY THE BOARD OF ESTIMATE AND APPORTIONMENT, AND  
FILED AT THIS OFFICE.

Map altering the street system in the territory bounded by the Brooklyn Borough Line, Ashland Street, Benedict Avenue, Ferriss Street, Freedom Avenue, Ferriss Place, Clark Avenue and Jamaica Avenue. (T. B. No. 329.) Filed June 25.

Map establishing the lines and grades of *Rostrom Avenue*, and of *Amityville Avenue*. (T. B. No. 359.) Filed March 30.

Map altering the grades of *Ziegler Avenue*, from Jackson Avenue to State Street. (T. B. No. 363.) Filed March 25.

Map altering the grades of *Mueller Street*, from Clinton Avenue to Grand Avenue. (T. B. No. 368.) Filed March 30.

Map altering the lines of *Puritan Avenue*, from Burns Avenue to Queens Boulevard. (T. B. No. 399.) Filed March 25.

Map altering the grades of *Carolyn Street*, from Foster Avenue to Barnett Avenue. (T. B. No. 402.) Filed March 25.

Map establishing the lines of *Aurelia Place*, from Newtown Avenue to Flushing Avenue. (T. B. No. 407.) Filed July 24.

Map altering the lines of *Audley Street*, from Beverley Road to the Long Island Railroad. (T. B. No. 409.) Filed March 30.

Map establishing a crown in 42d Street, between Sigel Avenue and Schurz Avenue. (T. B. No. 417.) Filed March 25.

Map altering the grades of *Kingsland Avenue*, from 42d Street to Luydig Street. (T. B. No. 420.)

Map altering the grades of *Astoria Avenue*, from Eighth Avenue to Steinway Avenue. (T. B. No. 423.) Filed March 25.

Map altering the lines and grades of *Polk Avenue*, from Junction Avenue to Tie-mann Avenue. (T. B. No. 424.) Filed October 1.

Map altering the grades in the territory bounded by Liberty Avenue, Huntington Street, Digby Street, Liberty Avenue, Hudson Street, Pitkin Avenue, Genesee Street, Sutter Avenue, North Conduit Avenue and the Brooklyn Borough Line. (T. B. No. 425.) Filed June 10.

Map altering the lines of *Larue Place*, from Way Avenue to Waldron Street. (T. B. No. 426.) Filed April 14.

Map altering the lines of *Christie Street*, from Alstyne Avenue to Waldron Street. (T. B. No. 427.) Filed May 24.

Map altering the grades of *Rodman Street*, from Otis Avenue to Fifty-first Street. (T. B. No. 428.) Filed April 14.

Map closing *Trains Meadow Road*, from Hayes Avenue to Baxter Avenue; *Baxter Avenue*, from Trains Meadow Road to Leverich Avenue, and *Leverich Avenue*, from Baxter Avenue to Elmhurst Avenue. (T. B. No. 429.) Filed October 1.

Map altering the grades of *Grand Avenue*, from Steinway Avenue to Eleventh Avenue. (T. B. No. 430.) Filed June 10.



Map altering the lines of *Fulton Street*, from Herald Avenue to Bedford Avenue. (T. B. No. 436.) Filed June 25.

Map reducing the width of *46th Street*, from Astoria Avenue to Roosevelt Avenue. (T. B. No. 438.) Filed March 25.

Map establishing the lines and grades of *Chickering Place*, from Mitchell Avenue to Alice Place. (T. B. No. 452.) Filed June 10.

Map establishing the lines and grades of *Nassau Avenue*, from Grand Street to Corinth Street. (T. B. No. 453.) Filed October 22.

Map altering the grades of *Beddard Street*, from Parsons Avenue to Percy Street. (T. B. No. 457.) Filed Sept. 17.

Map altering the grades of *California Avenue*, from Jaeger Avenue to Macdonald Street. (T. B. No. 460.) Filed June 10.

Map altering the lines of *Schurz Avenue*, from Ditmars Avenue to Berrian Avenue. (T. B. No. 461.) Filed May 24.

Map altering the grades of *Broadway*, at Eighth Street. (T. B. No. 465.) Filed June 25.

Map altering the grades of *Steinway Avenue*, from Wolcott Avenue to Ditmars Avenue. (T. B. No. 466.) Filed Sept. 17.

Map altering the grades of *Van Alst Avenue*, from 13th Street to South Jane Street. (T. B. No. 467.) Filed June 25.

Map altering the grades of *Toledo Street*, from Gary Avenue to Ivy Street. (T. B. No. 468.) Filed Sept. 17.

Map altering the lines of *Proctor Street*, from St. Germans Street to Edsall Avenue. (T. B. No. 469.) Filed Sept. 17.

Map altering the grades of *Firth Avenue*, from Whitlock Avenue to Dorothy Place. (T. B. No. 471.) Filed Sept. 17.

Map altering the lines of *Corona Avenue*, from Broadway to Maurice Avenue. (T. B. No. 472.) Filed Jan. 7.

Map altering the lines of *Corona Avenue*, from Alstyne Avenue to Hanover Avenue. (T. B. No. 473.) Filed March 25.

Map establishing the street lines and grades along the *Lutheran Cemetery Branch* of the *Brooklyn Rapid Transit*, from the Brooklyn Borough Line to Metropolitan Avenue. (T. B. No. 476.) Filed October 1.

Map altering the grades of *Decatur Street*, from Irving Avenue to Wyckoff Avenue. (T. B. No. 481.) Filed Jan. 7.

Map correcting a block dimension of *Burrough Avenue*, between Railroad Avenue and Garfield Street. (T. B. No. 484.) Filed Sept. 17.

Map altering the lines of *Bayreuth Street*, from Murray Street to Dutchess Street. (T. B. No. 486.) Filed March 30.

Map reducing the width of *Broadway*, from Baxter Avenue to Queens Boulevard. (T. B. No. 488.) Filed July 24.

Map altering the lines of *Brevoort Street*, from Cuthbert Place to Metropolitan Avenue. (T. B. No. 484.) Filed October 22.

Map altering the grades of *Nelson Avenue*, from Hulst Street to Madden Street. (T. B. No. 486.) Filed June 10.

Map establishing the lines of the streets crossing the Long Island Railroad (Montauk Division) between Forest Park and Jamaica Avenue. (T. B. No. 497.) Filed July 24.

Map establishing the lines of *Liberty Avenue*, from Blakely Street to Carlisle Street. (T. B. No. 499.) Filed June 25.

Map altering the grades of *Franklin Place*, from Kissena Road to Macdonald Street. (T. B. No. 501.) Filed December 3.

Map reducing the width of *Lambertville Avenue*, from Sutphin Road to Merrick Road. (T. B. No. 508.) Filed April 30.

Map closing the streets across and near the Main Line of the Long Island Railroad, between Fifth Street and Medford Street. (T. B. No. 509.) Filed July 24.

Map altering the grades of *Seventh Street*, from Grand Avenue to Flushing Avenue. (T. B. No. 510.) Filed December 3.

Map altering the lines and grades of *Rombouts Place*, from Polk Avenue to Broadway. (T. B. No. 512.) Filed October 22.

Map altering the grades of *Sutphin Road*, from Rocton Street to Rockaway Boulevard. (T. B. No. 514.) Filed October 1.

Map altering the line of *80th Street*, from Liberty Avenue to Pitkin Avenue. (T. B. No. 523.) Filed July 24.

Map altering the grades of *40th Street*, from Jackson Avenue to Alstyn Avenue. (T. B. No. 571.) Filed December 3.

#### ALTERATION MAPS WITH THE BOARD OF ESTIMATE AND APPORTIONMENT FOR CERTIFICATION AND FILING.

Map altering the lines of *Justice Street*, from Broadway to Junction Avenue. (T. B. No. 478.)

Map altering the lines of *Calamus Avenue*, from Carroll Place to Fisk Avenue. (T. B. No. 505.)

Map altering the lines of *Calamus Avenue*, from Grand Street to Woodhaven Avenue. (T. B. No. 516.)

Map altering the grades of *124th Street*, from Jamaica Avenue to 89th Avenue. (T. B. No. 521.)

Map altering the grades of *129th Street*, from Jamaica Avenue to 91st Avenue. (T. B. No. 526.)

Map altering the lines of *Elmhurst Avenue*, from Broadway to Judge Street. (T. B. No. 533.)

Map showing a change in the street system within the territory bounded by Fisk Avenue, Fairbanks Avenue, 18th Street, Woodside Avenue, 19th Street, Queens Boulevard and Adam Street. (T. B. No. 557.)

Map altering the grades of *97th Street* and of *98th Street*, from 97th Avenue to 103d Avenue. (T. B. No. 561.)

Map altering the grades of *Ulster Avenue*, from Smith Street to Westchester Avenue; of *Westchester Avenue*, from Ulster Avenue to 117th Avenue; of *117th Avenue*, from Westchester Avenue to Dearborn Avenue, and of *Dearborn Avenue*, from 117th Avenue to the Nassau County Line. (T. B. No. 563.)

Map altering the lines of *Corona Avenue*, from Junction Avenue to Alstyn Avenue. (T. B. No. 566.)

Map altering the grades of *Lambertville Avenue*, from Newark Street to New York Avenue, and of *Smith Street*, from Brinkerhoff Avenue to Ulster Avenue. (T. B. No. 592.)

#### ALTERATION MAPS NOT COMPLETED.

##### *Being surveyed—*

*Chichester Avenue*, from Cedar Avenue to Hamilton Avenue, and from Napier Avenue to Greenwood Avenue. (T. B. No. 606.)

##### *Being computed—*

*Old Astoria Road*, from Maspeth Avenue to Maurice Avenue. (T. B. No. 528.) Waiting field work.

*Woodill Street*, from Falkner Street to Grand Street. (T. B. No. 541.) Held up.

*Lincoln Avenue* and *First Street*, from Skillman Avenue to Woodside Avenue. (T. B. No. 542.) Waiting field work.

*Old Bowery Bay Road*, from Second Avenue to Hazen Street. (T. B. No. 543.) Waiting field work.



*Woodhaven Avenue*, from Jamaica Avenue to Forest Park. (T. B. No. 546.) Preliminary work done.

*Juniper Swamp Section*. (T. B. No. 567.) Well advanced.

*Forest Street*, from Lee Avenue to Lenox Avenue. (T. B. No. 591.) Waiting field work.

*Melvina Place*, from Clinton Avenue to Maspeth Avenue. (T. B. No. 604.) Waiting field work.

*Being draughted*—

*Jaggar Avenue*, from Underhill Avenue to Sanford Avenue. (T. B. No. 527.) Not started.

*Archer Place* extension, from Van Wyck Avenue to Dora Street. (50 per cent. completed.) Abandoned.

*Rockaway Park* grade changes. (T. B. No. 531.) Not started.

*Juniper Avenue*, from Marion Avenue to Nora Place. (T. B. No. 534.) 50 per cent. completed.

*Penelope Street*, from Queens Boulevard to Long Island Railroad. (T. B. No. 552.) 50 per cent. completed.

*Ridgewood Avenue*, from Elderts Lane to Jamaica Avenue. (T. B. No. 569.) 90 per cent. completed.

*Maspeth Avenue*, from Marabel Avenue to Grand Street. (T. B. No. 584.) To be incorporated with *Willow Avenue*. (T. B. No. 605.)

*Borough Line* change at Highland Park, to conform with chapter 410, Laws of 1915. (T. B. No. 585.) Not started.

*Atlantic Avenue*, from Vanderveer Avenue to Herald Avenue. (T. B. No. 588.) To be incorporated with Ridgewood Avenue. (T. B. No. 569.)

*Beach One Hundred and Seventeenth Street*, from Jamaica Avenue to Atlantic Avenue. (T. B. No. 599.) Not started.

*Cooper Avenue*, from Dill Place to Slocum Street. (T. B. No. 602.) Not started.

*Willow Avenue*, from Grand Avenue to Flushing Avenue. (T. B. No. 605.) To include Maspeth Avenue. (T. B. No. 587.)

*Lambertville Avenue*, from Spangler Street to Merrick Road. (T. B. No. 608.) 75 per cent. completed.

*Netcong Avenue*, from Rocton Street to Chichester Avenue. (T. B. No. 609.) Not started.

#### REMONUMENTING TO CONFORM WITH ADOPTED ALTERATION MAPS—COMPLETED.

Map altering the street system in Corona, bounded by North Railroad Avenue, Way Avenue, Corona Avenue, Opdyke Street, 51st Street, Corona Avenue, Rodman Street, Otis Street, Orontes Street, Marlowe Avenue, Lewis Avenue, Sothern Avenue, Gerry Avenue, Marlowe Avenue, Corona Avenue and Louona Avenue. (T. B. No. 530.)

Map altering the lines of *Queens Boulevard*, from Van Loon Place to Caldwell Avenue. (T. B. No. 550.)

Map altering the lines of *Corona Avenue*, from Provost Street to Radcliff Street. (T. B. No. 356.)

Map altering the lines of *Calamus Avenue*, from Delafield Street to Grand Street. (T. B. No. 389.)

Map altering the lines of *Clermont Street*, from Maspeth Avenue to Fresh Pond Road. (T. B. No. 406.)

Map altering the lines of *Stanhope Street*, from Amory Avenue to Metropolitan Avenue. (T. B. No. 411.)

Map altering the lines and grades of *Maspeth Avenue*, from Maurice Avenue to Clermont Avenue. (T. B. No. 413.)

Map altering the width of *Sutphin Road*, from Rocton Street to Rockaway Boulevard. (T. B. No. 439.)

Map altering the lines of *Spangler Street* and of *Smith Street*, from Lambertville Avenue to Ulster Avenue. (T. B. No. 447.)

Map reducing the width of *Lambertville Avenue*, from Sutphin Road to Merrick Road. (T. B. No. 508.)

#### Section No. 30.

Map altering the street system between the Brooklyn Borough Line and Freedom Avenue, and between Jamaica Avenue and Forest Park. (T. B. No. 329.)

Map altering the lines of *Audley Street*, from Beverly Road to the Long Island Railroad. (T. B. No. 409.)

Map reducing the width of *Forty-sixth Street*, from Astoria Avenue to Roosevelt Avenue. (T. B. No. 438.)

Map altering the lines of *Maywood Street*, from Carlisle Street to Medford Street. (T. B. No. 491.)

Map altering the street system in the *Juniper Swamp* Section. (T. B. No. 567.)

Map altering the lines of *Puritan Avenue*, from Burns Avenue to Queens Boulevard. (T. B. No. 399.)

Map altering the lines of *Brevoort Street*, from Cuthbert Place to Metropolitan Avenue. (T. B. No. 494.)

#### REMONUMENTING TO CONFORM WITH ADOPTED ALTERATION MAPS—NOT COMPLETED.

Map altering the grades of *Grand Avenue*, from 33d Street to 40th Street. (T. B. No. 457.)

Map establishing the lines and grades of *Nassau Avenue*, from Grand Street to Corinth Street. (T. B. No. 453.)

Map altering the lines of *Proctor Street*, from St. Germans Street to Edsall Avenue. (T. B. No. 469.)

Map altering the lines and grades of *Corona Avenue*, from Alstyne Avenue to Hanover Avenue. (T. B. No. 473.)

Map reducing the width of *Broadway*, from Baxter Avenue to Queens Boulevard. (T. B. No. 488.)

Map altering the lines and grades of *Woodside Avenue*, from Middagh Street to Broadway. (T. B. No. 576.)

#### DIVISION OF STREET OPENING.

#### STREET OPENING PROCEEDINGS APPROVED BY THE BOARD OF ESTIMATE AND APPORTIONMENT.

* <i>Young Street</i> —Hunterspoint Avenue to Review Avenue.....	Jan. 8
* <i>Corona Avenue</i> —Hampton Street to Rodman Street.....	Jan. 8
* <i>Liberty Avenue</i> —Brooklyn Borough Line to Van Wyck Avenue.....	Feb. 5
* <i>Bayreuth Street</i> —Parsons Avenue to Dutchess Street.....	Feb. 5
<i>Theodore Street</i> —Astoria Avenue to the East River.....	Apr. 1
* <i>Lambertville Avenue</i> —Sutphin Road to Merrick Road.....	Apr. 1
<i>Seventy-ninth Street</i> —Liberty Avenue to Vienna Avenue.....	June 25
<i>Eightieth Street</i> —Atlantic Avenue to Liberty Avenue.....	June 25
† <i>Theodore Street</i> —Astoria Avenue to the East River.....	July 1
† <i>Seventeenth Street</i> —Queens Boulevard to Jackson Avenue.....	July 1
† <i>Mitchell Avenue</i> —Whitestone Avenue to Dunsing Street.....	July 1
† <i>Connorton Avenue</i> —Parsons Avenue to Dunsing Street.....	July 1
† <i>Thirty-third Street</i> —Roosevelt Avenue to Jackson Avenue.....	July 1
† <i>Case Street</i> —Elmhurst Avenue to Roosevelt Avenue.....	July 1

\*Amended proceeding.

†Reinstituted to conform with new street opening law (chapter 606, Laws 1915).

† <i>Fisk Avenue</i> —Queens Boulevard to Broadway.....	July 1
† <i>St. Felix Avenue</i> —Cooper Avenue to Charlotte Place.....	July 1
* <i>Whitlock Avenue</i> —Brown Place to Nassau Avenue.....	July 1
* <i>Homan Avenue</i> —Division Avenue to Calamus Avenue.....	July 1
<i>Netcong Avenue</i> —Chichester Avenue to Rocton Street.....	July 29
* <i>Archer Street</i> —Van Wyck Avenue to Branford Street.....	July 29
* <i>Ashland Street</i> —Cypress Hills Cemetery to Myrtle Avenue; Birch Street to Spruce Street; North Curtis Avenue to Metropolitan Avenue.....	July 29
† <i>Seneca Avenue</i> —Brooklyn Borough Line to De Kalb Avenue; Summerfield Street to St. Felix Avenue.....	Oct. 1
† <i>Kew Gardens Road</i> —Union Turnpike to Iris Place.....	Oct. 1
<i>Woodside Avenue</i> —Skillman Avenue to Broadway.....	Oct. 8
† <i>Opdyke Street</i> —Alburtis Avenue to Tiemann Avenue.....	Oct. 15
* <i>Broadway</i> —Newtown Road to Queens Boulevard.....	Oct. 15
<i>Sheridan Avenue</i> —Flynn Avenue to Spring Creek.....	Oct. 15
† <i>Elderts Lane</i> —Jamaica Avenue to Atlantic Avenue.....	Oct. 22
† <i>Bayreuth Street</i> —Parsons Avenue to Dutchess Street.....	Oct. 22
† <i>Burrough Avenue</i> —Borden Avenue to Woodside Avenue.....	Oct. 22
† <i>Caspian Street</i> —Andrews Street to Metropolitan Avenue.....	Oct. 22
† <i>Zeidler Street</i> —Andrews Street to Metropolitan Avenue.....	Oct. 22
† <i>King Place</i> —Caspian Street to Metropolitan Avenue.....	Oct. 22
† <i>Jay Avenue</i> —Willow Avenue to Mueller Street.....	Oct. 22
† <i>Marston Avenue</i> —Murray Street to Dunsing Street.....	Oct. 22
† <i>Dunsing Street</i> —Marston Avenue to Matthew Place.....	Oct. 22
† <i>Matthew Place</i> —Dunsing Street to Hoogland Street.....	Oct. 22
† <i>Milton Street</i> —Flushing Avenue to Grand Street.....	Oct. 22
† <i>Ninth Street</i> —Broadway to Jackson Avenue.....	Oct. 22
† <i>Tenth Street</i> —Broadway to Jackson Avenue.....	Oct. 22
† <i>Peel Street</i> —Broadway to Hayes Avenue.....	Oct. 22
† <i>Radcliff Street</i> —Waldron Street to 300 feet west of Flushing River.....	Oct. 22
† <i>Strong Street</i> —Waldron Street to 300 feet west of Flushing River.....	Oct. 22
† <i>St. James Street</i> —Maurice Avenue to Broadway.....	Oct. 22
† <i>Corona Avenue</i> —Maurice Avenue to Broadway.....	Oct. 22
† <i>Seventeenth Avenue</i> —Winthrop Avenue to Berrian Avenue.....	Oct. 22
† <i>Van Pelt Street</i> —Borden Avenue to Skillman Avenue.....	Oct. 22
† <i>Whitney Street</i> —Academy Street to Crescent Street.....	Oct. 22
† <i>Willow Avenue</i> —Grand Street to Columbine Avenue.....	Oct. 22
† <i>Meadow Street</i> —Varick Avenue easterly 162 feet, and from Scott Avenue to Metropolitan Avenue.....	Oct. 29
† <i>Stagg Street</i> —Varick Avenue to Stewart Avenue; Scott Avenue to Onderdonk Avenue .....	Oct. 29
† <i>Scholes Street</i> —Onderdonk Avenue to 110 feet west of Scott Avenue.....	Oct. 29
† <i>Meserole Street</i> —Stewart Avenue to Old Creek—Onderdonk Avenue to 70 feet west of Scott Avenue.....	Oct. 29
† <i>Randolph Street</i> —Varick Avenue to Seneca Avenue.....	Oct. 29
† <i>Garden Avenue</i> —Johnson Avenue to Randolph Street.....	Oct. 29
† <i>Twelfth Street</i> —Fillmore Avenue to the East River.....	Nov. 5
† <i>Ziegler Avenue</i> —Bayreuth Street to Willets Point Road.....	Nov. 5
† <i>Lake Street</i> —Junction Avenue to Alburtis Avenue.....	Dec. 3
† <i>Banta Street</i> —Van Dine Street to Junction Avenue.....	Dec. 3
† <i>Schroeder Place</i> —Queens Boulevard to Woodside Avenue.....	Dec. 3
* <i>Seventy-ninth Street</i> —Liberty Avenue to Wortman Avenue.....	Dec. 23
* <i>Eightieth Street</i> —Atlantic Avenue to Liberty Avenue.....	Dec. 23

\*Amended proceeding.

†Reinstituted to conform with new street opening law (chapter 606, Laws 1915).

## STREET OPENING MAPS APPROVED BY THE BOARD OF ESTIMATE AND APPORTIONMENT.

* <i>Liberty Avenue</i> —Brooklyn Borough Line to Van Wyck Avenue (Rule and Damage) .....	Feb. 19
* <i>Corona Avenue</i> —Hampton Street to Rodman Street (Rule and Damage) ..	Feb. 19
* <i>Young Street</i> —Hunters Point Avenue to Review Avenue (Rule and Damage) .....	Mar. 5
<i>Columbine Avenue</i> —Laurel Hill Boulevard to Queens Boulevard (Rule and Damage) .....	Mar. 5
<i>Campion Street</i> and <i>Sutphin Road</i> —Jamaica Avenue to Archer Street; Hillside Avenue to Jamaica Avenue; L. I. R. R. to Rockaway Boulevard (Sections 1 and 2, Damage) .....	Mar. 19
<i>Huntington Street</i> —Liberty Avenue to Digby Street (Rule and Damage) ..	Apr. 16
<i>Adriatic Street</i> —Collins Avenue to Fresh Pond Road (Rule and Damage) ..	Apr. 16
<i>Ulster Avenue</i> —Smith Street to Westchester Avenue (Rule, Damage and Profile) .....	Apr. 16
<i>Westchester Avenue</i> —Ulster Avenue to 117th Avenue (Rule, Damage and Profile) .....	Apr. 16
<i>One Hundred and Seventeenth Avenue</i> —Westchester Avenue to Dearborn Avenue (Rule, Damage and Profile) .....	Apr. 16
<i>Dearborn Avenue</i> —117th Avenue to City Line (Rule, Damage and Profile) ..	Apr. 16
<i>Brinkerhoff Avenue</i> —Smith Street to Spangler Street (Rule, Damage and Profile) .....	Apr. 16
<i>Spangler Street</i> —Lambertville Avenue to Brinkerhoff Avenue (Rule, Damage and Profile) .....	Apr. 16
<i>Smith Street</i> —Brinkerhoff Avenue to Ulster Avenue (Rule, Damage and Profile) .....	Apr. 16
* <i>Lambertville Avenue</i> —Sutphin Road to Merrick Road (Rule, Damage and Profile) .....	Apr. 30
<i>Huntington Street</i> —Liberty Avenue to Digby Street (Profile) .....	July 1
<i>Campion Street</i> —Jamaica Avenue to Archer Street .....	} Sections 1 and 2 Profile }
<i>Sutphin Road</i> —Hillside Avenue to Jamaica Avenue .....	
L. I. R. R. to Rockaway Boulevard .....	July 29
<i>Fisk Avenue</i> —Queens Boulevard to Broadway (Rule and Damage) .....	Aug. 26
<i>Thirty-third Street</i> —Roosevelt Avenue to Jackson Avenue (Rule and Damage) .....	Oct. 15
<i>Case Street</i> —Elmhurst Avenue to Roosevelt Avenue (Rule and Damage) ..	Oct. 15
<i>Mitchell Avenue</i> —Whitestone Avenue to Dunsing Street (Rule and Damage) .....	Oct. 15
<i>Connorton Avenue</i> —Parsons Avenue to Dunsing Street (Rule and Damage) .....	Oct. 29
<i>Opdyke Street</i> —Alburtis Avenue to Tiemann Avenue (Rule and Damage) ..	Oct. 29
<i>Jay Avenue</i> —Willow Avenue to Mueller Street (Rule and Damage) .....	Nov. 12
<i>Kew Gardens Road</i> —Union Turnpike to Iris Place (Rule and Damage) ...	Nov. 12
<i>Burrough Avenue</i> —Borden Avenue to Woodside Avenue (Rule and Damage) .....	Nov. 12
<i>Willow Avenue</i> —Grand Street to Columbine Avenue (Rule and Damage) ..	Nov. 12
<i>Milton Street</i> —Flushing Avenue to Grand Street (Rule and Damage) .....	Nov. 12
<i>Whitney Street</i> —Academy Street to Crescent Street (Rule and Damage) ..	Nov. 12
<i>Bayreuth Street</i> —Parsons Avenue to Dutchess Street (Rule and Damage) ..	Nov. 12
<i>Caspian Street</i> —Andrews Street to Metropolitan Avenue (Rule and Damage) .....	Nov. 12
<i>Zeidler Street</i> —Andrews Street to Metropolitan Avenue (Rule and Damage) .....	Nov. 12

\*Supplementary Maps.

<i>King Place</i> —Caspian Street to Metropolitan Avenue (Rule and Damage) ..	Nov. 12
<i>Radcliff Street</i> —Waldron Street to 300 feet west of Flushing River (Rule and Damage) .....	Nov. 12
<i>Strong Street</i> —Waldron Street to 300 feet west of Flushing River (Rule and Damage) .....	Nov. 12
<i>Diitmars Avenue</i> —Old Bowery Bay Road to 43d Street (Rule and Damage)	Nov. 12
<i>Ninth Street</i> —Broadway to Jackson Avenue (Rule and Damage) .....	Nov. 12
<i>Tenth Street</i> —Broadway to Jackson Avenue (Rule and Damage) .....	Nov. 12
<i>Peel Street</i> —Broadway to Hayes Avenue (Rule and Damage) .....	Nov. 12
<i>Seventeenth Street</i> —Winthrop Avenue to Berrian Avenue (Rule and Damage) .....	Nov. 12
<i>Seneca Avenue</i> —Brooklyn Borough Line to DeKalb Avenue (Rule and Damage) .....	Nov. 12
<i>Seneca Avenue</i> —Summerfield Street to St. Felix Avenue (Rule and Damage) .....	Nov. 12
<i>Van Pelt Street</i> —Borden Avenue to Skillman Avenue (Rule and Damage)	Nov. 12
<i>Corona Avenue</i> —Broadway to Maurice Avenue (Rule and Damage) .....	Nov. 12
<i>St. James Street</i> —Broadway to Maurice Avenue (Rule and Damage) .....	Nov. 12
<i>Seventeenth Street</i> —Queens Boulevard to Jackson Avenue (Rule and Damage) .....	Nov. 12
<i>St. Felix Avenue</i> —Cooper Avenue to Charlotte Place .....	Nov. 12
<i>Elderts Lane</i> —Jamaica Avenue to Atlantic Avenue (Rule and Damage) ..	Nov. 3
<i>Marston Avenue</i> —Murray Street to Dunsing Street (Rule and Damage) ..	Nov. 17
<i>Dunsing Street</i> —Marston Avenue to Matthew Place (Rule and Damage) ..	Nov. 17
<i>Matthew Place</i> —Dunsing Street to Hoogland Street (Rule and Damage) ..	Nov. 17
<i>Ziegler Avenue</i> —Bayreuth Street to Willets Point Road (Rule and Damage) .....	Nov. 23

#### STREET OPENING SURVEYS COMPLETED.

<i>Adriatic Street</i> —Collins Avenue to Fresh Pond Road.
<i>Suiphin Road</i> —Long Island Railroad to Rockaway Boulevard.
<i>Huntington Street</i> —Liberty Avenue to Digby Street.
<i>Brinkerhoff Avenue</i> —Smith Street to Spangler Street.
<i>Spangler Street</i> —Brinkerhoff Avenue to Lambertville Avenue.
<i>Smith Street</i> —Brinkerhoff Avenue to Ulster Avenue.
<i>Thirty-third Street</i> —Roosevelt Avenue to Jackson Avenue.
<i>Case Street</i> —Elmhurst Avenue to Roosevelt Avenue.
<i>Seventeenth Street</i> —Queens Boulevard to Jackson Avenue.
<i>Fisk Avenue</i> —Queens Boulevard to Broadway.
<i>Connorton Avenue</i> —Parsons Avenue to Dunsing Street.
<i>Mitchell Avenue</i> —Whitestone Avenue to Dunsing Street.
<i>Theodore Street</i> —Astoria Avenue to the East River.
<i>Suburban Street</i> —Epsilon Place to Myrtle Avenue.
<i>Copeland Avenue</i> —Myrtle Avenue to Proctor Street.
<i>Central Avenue</i> —Edsall Avenue to Woodhaven Avenue.
* <i>St. Felix Avenue</i> —Cooper Avenue to Charlotte Place.
<i>Netcong Avenue</i> —Chichester Avenue to Rocton Street.
<i>Eightieth Street</i> —Atlantic Avenue to Liberty Avenue.
<i>Seventy-ninth Street</i> —Liberty Avenue to Vienna Avenue.
<i>Archer Street</i> —Van Wyck Avenue to Branford Street.

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\* Amended to conform with amendment to the proceeding.

RULE MAPS COMPLETED AND FORWARDED TO THE BOARD OF ESTIMATE AND APPORTION-  
MENT FOR APPROVAL. Feet.

<i>Smith Street</i> —Brinkerhoff Avenue to Ulster Avenue.....	} 2,400
<i>Brinkerhoff Avenue</i> —Smith Street to Spangler Street.....	
<i>Spangler Street</i> —Brinkerhoff Avenue to Lambertville Avenue.....	
<i>Adriatic Street</i> —Collins Avenue to Fresh Pond Road.....	1,125
<i>Huntington Street</i> —Liberty Avenue to Digby Street.....	666
<i>Ulster Avenue</i> —Smith Street to Westchester Avenue.....	} 17,000
<i>Westchester Avenue</i> —Ulster Avenue to 117th Avenue.....	
<i>One Hundred and Seventeenth Avenue</i> —Westchester Avenue to Dearborn Avenue .....	
<i>Dearborn Avenue</i> —117th Avenue to the City Line.....	
* <i>Young Street</i> —Review Avenue to Hunterspoint Avenue.....	2,530
* <i>Bayreuth Street</i> —Parsons Avenue to Dutchess Street.....	2,530
<i>Thirty-third Street</i> —Jackson Avenue to Roosevelt Avenue.....	2,825
<i>Case Street</i> —Roosevelt Avenue to Elmhurst Avenue.....	73
<i>Radcliffe Street</i> —Waldron Street to Hewitt Avenue.....	5,645
<i>Strong Street</i> —Waldron Street to Hewitt Avenue.....	5,780
<i>Fisk Avenue</i> —Queens Boulevard to Broadway.....	3,019
* <i>Lambertville Avenue</i> —Sutphin Road to Merrick Road.....	3,700
<i>Mitchell Avenue</i> —Whitestone Avenue to Dunsing Street.....	5,045
<i>Connorton Avenue</i> —Parsons Avenue to Dunsing Street.....	4,430
<i>Netcong Avenue</i> —Chichester Avenue to Rocton Street.....	200
† <i>Thirty-third Street</i> —Jackson Avenue to Roosevelt Avenue.....	2,825
† <i>Case Street</i> —Roosevelt Avenue to Elmhurst Avenue.....	73
† <i>Fisk Avenue</i> —Queens Boulevard to Broadway.....	3,019
† <i>Seventeenth Avenue</i> —Flushing Avenue to Potter Avenue.....	1,855
† <i>Van Pelt Street</i> —Borden Avenue to Skillman Avenue.....	3,725
<i>Whitney Street</i> —Academy Street to Crescent Street.....	1,112
† <i>Radcliff Street</i> —Waldron Street to 300 feet west of Flushing River.....	5,600
† <i>Strong Street</i> —Waldron Street to 300 feet west of Flushing River.....	5,700
† <i>Lake Street</i> —Junction Avenue to Alburtis Avenue.....	2,060
† <i>Banta Street</i> —Van Dine Street to Junction Avenue.....	930
† <i>Opdyke Street</i> —Corona Avenue to Tiemann Avenue.....	1,679
† <i>Burrough Avenue</i> —Borden Avenue to Woodside Avenue.....	5,730
† <i>St. James Street</i> —Maurice Avenue to Broadway.....	960
† <i>Corona Avenue</i> —Maurice Avenue to Broadway.....	630
† <i>Seneca Avenue</i> —{ Brooklyn Borough Line to DeKalb Avenue..... } { Summerfield Street to St. Felix Avenue..... }	1,440
† <i>Kew Gardens Road</i> —Union Turnpike to Iris Place.....	2,500
† <i>Caspian Street</i> —Andrews Street to Metropolitan Avenue.....	1,584
† <i>Zeidler Street</i> —Andrews Street to Metropolitan Avenue.....	410
† <i>King Place</i> —Caspian Street to Metropolitan Avenue.....	200
† <i>Schroeder Place</i> —Queens Boulevard to Woodside Avenue.....	1,112
† <i>Cox Place</i> —Flushing Avenue to Broad Street.....	840
† <i>Marabel Avenue</i> —Maurice Avenue to Maspeth Avenue.....	1,850
† <i>Clermont Avenue</i> —Maurice Avenue to Hebbard Avenue.....	4,300
† <i>Hampton Street</i> —Baxter Avenue to Kingsland Avenue.....	2,640
† <i>Glean Street</i> —Baxter Avenue to Kingsland Avenue.....	2,850
† <i>Ditmars Avenue</i> —Old Bowery Bay Road to 43d Street.....	8,380
† <i>Van Cott Avenue</i> —Grand Street to Maurice Avenue.....	1,600

\*Amended to conform with amendment to the proceeding.

†Amended to conform with proceeding as reinstituted to be within the purview of new street opening law (chapter 606), Laws 1915.



	Feet.
†James Street—Rust Street to Flushing Avenue.....	900
†Jay Avenue—Willow Avenue to Mueller Street.....	1,750
†Milton Street—Flushing Avenue to Grand Street.....	1,050
†Ninth Street—Broadway to Jackson Avenue.....	1,300
†Tenth Street—Broadway to Jackson Avenue.....	1,520
†Peel Street—Broadway to Hayes Avenue.....	1,050
†Twelfth Street—Fillmore Avenue to the East River.....	9,687
Sixth Street—Stryker Avenue to Seventh Street.....	2,050
†Seventh Street—Jackson Avenue to 150 feet south of Stryker Avenue.....	2,800
†Eighth Street—Woodside Avenue to Jackson Avenue.....	3,350
†Willow Avenue—Grand Street to Columbine Avenue.....	1,480
†Marston Avenue—Murray Street to Dunsing Street.....	855
†Dunsing Street—Marston Avenue to Matthew Place.....	182
†Matthew Place—Dunsing Street to Hoogland Street.....	1,040
†Bayreuth Street—Parsons Avenue to Dutchess Street.....	2,530
†Corona Avenue—Hampton Street to Rodman Street.....	9,000
*St. Felix Avenue—Cooper Avenue to Charlotte Place.....	2,130
Seventeenth Street—Queens Boulevard to Jackson Avenue.....	5,600
Theodore Street—Astoria Avenue to the East River.....	5,400

RULE MAPS NOT COMPLETED.

175,754

Sutphin Road—Hillside Avenue to Jamaica Avenue, Long Island Railroad to Rockaway Boulevard. Section 3 and 4, 20 per cent. completed.....	12,925
Campion Street—Jamaica Avenue to Archer Street.....	1,200
Suburban Street—Epsilon Place to Myrtle avenue. 15 per cent. completed..	2,400
Copeland Avenue—Myrtle Avenue to Proctor Street. 15 per cent. completed..	1,600
Central Avenue—Edsall Avenue to Woodhaven Avenue. 15 per cent. completed .....	5,000
Sothorn Avenue—Queens Boulevard to Lurting Street. Not started.....	6,200
Firth Avenue—Grand Street to Metropolitan Avenue. Not started.....	5,900
Lowell Avenue—Metropolitan Avenue to Woodhaven Avenue. Not started..	6,270
Alden Avenue—Long Island Railroad to Pansy Street. Not started.....	2,500
Fresh Pond Road—Myrtle Avenue to 200 feet south of Anna Place. Not started .....	2,680
Thew Avenue—Corinth Avenue to Satterlee Avenue. Not started.....	6,000
Rockaway Boulevard—Elderts Lane to Ocean Avenue. 50 per cent. completed	7,670
Caldwell Avenue—Harriet Avenue to Queens Boulevard. 90 per cent. completed .....	7,240
Maure Avenue—Metropolitan Avenue to Wisner Place, Atlantic Avenue to Liberty Avenue. Not started.....	4,800
*Whitlock Avenue—Brown Place to Nassau Avenue. Not started.....	3,300
*Homan Avenue—Division Avenue to Calamus Avenue. Not started.....	380
79th Street—Liberty Avenue to Vienna Avenue. 85 per cent. completed....	3,883
80th Street—Atlantic Avenue to Liberty Avenue. 85 per cent. completed....	1,970
Archer Street—Van Wyck Avenue to Branford Street. Not started.....	4,500
Broadway—Newtown Road to Queens Boulevard. Not started.....	12,000
Woodside Avenue—Skillman Avenue to Broadway. Not started.....	6,200
Sheridan Avenue—Flynn Avenue to Spring Creek. Not started.....	1,630

106,248

\*Amended to conform with amendment to the proceeding.

†Amended to conform with proceeding as reinstituted to be within the purview of new street opening law (chapter 606), Laws 1915.



DRAFT DAMAGE MAPS COMPLETED AND FORWARDED TO THE BOARD OF ESTIMATE AND  
APPORTIONMENT FOR APPROVAL.

	Feet.
<i>Sutphin Road</i> —Hillside Avenue to Jamaica Avenue; L. I. R. R. to Rockaway Boulevard (Sections 1 and 2).....	3,990
<i>Campion Street</i> —Jamaica Avenue to Archer Street.....	1,200
<i>Ulster Avenue</i> —Smith Street to Westchester Avenue.....	17,000
<i>Westchester Avenue</i> —Ulster Avenue to 117th Avenue.....	
<i>117th Avenue</i> —Westchester Avenue to Dearborn Avenue.....	
<i>Dearborn Avenue</i> —117th Avenue to City Line.....	2,400
<i>Smith Street</i> —Brinkerhoff Avenue to Ulster Avenue.....	
<i>Brinkerhoff Avenue</i> —Smith Street to Spangler Street.....	
<i>Spangler Street</i> —Brinkerhoff Avenue to Lambertville Avenue.....	1,125
<i>Adriatic Street</i> —Collins Avenue to Fresh Pond Road.....	
<i>Huntington Street</i> —Liberty Avenue to Digby Street.....	
* <i>Young Street</i> —Review Avenue to Hunterspoint Avenue.....	2,038
* <i>Bayreuth Street</i> —Parsons Avenue to Dutchess Street.....	2,530
<i>33d Street</i> —Roosevelt Avenue to Jackson Avenue.....	2,825
<i>Case Street</i> —Elmhurst Avenue to Roosevelt Avenue.....	73
<i>Radcliff Street</i> —Waldron Street to Hewitt Avenue.....	5,645
<i>Strong Street</i> —Waldron Street to Hewitt Avenue.....	5,780
<i>Fisk Avenue</i> —Queens Boulevard to Broadway.....	3,019
* <i>Lambertville Avenue</i> —Sutphin Road to Merrick Road.....	3,700
<i>Mitchell Avenue</i> —Whitestone Avenue to Dunsing Street.....	5,045
<i>Connorton Avenue</i> —Parsons Avenue to Dunsing Street.....	4,430
<i>Netcong Avenue</i> —Chichester Avenue to Rocton Street.....	200
† <i>33d Street</i> —Jackson Avenue to Roosevelt Avenue.....	2,825
† <i>Case Street</i> —Roosevelt Avenue to Elmhurst Avenue.....	73
† <i>Fisk Avenue</i> —Queens Boulevard to Broadway.....	3,019
† <i>117th Avenue</i> —Flushing Avenue to Potter Avenue.....	1,855
† <i>Van Pelt Street</i> —Borden Avenue to Skillman Avenue.....	3,725
† <i>Whitney Street</i> —Academy Street to Crescent Street.....	1,112
† <i>Radcliff Street</i> —Waldron Street to 300 feet west of Flushing River.....	5,600
† <i>Strong Street</i> —Waldron Street to 300 feet west of Flushing River.....	5,700
† <i>Lake Street</i> —Junction Avenue to Alburtis Avenue.....	2,060
† <i>Banta Street</i> —Van Dine Street to Junction Avenue.....	930
† <i>Opdyke Street</i> —Corona Avenue to Tiemann Avenue.....	1,679
† <i>Burrough Avenue</i> —Borden Avenue to Woodside Avenue.....	5,730
† <i>St. James Street</i> —Maurice Avenue to Broadway.....	960
† <i>Corona Avenue</i> —Maurice Avenue to Broadway.....	630
† <i>Seneca Avenue</i> —Brooklyn Borough Line to De Kalb Avenue; Summerfield Street to St. Felix Avenue.....	1,440
† <i>Kew Gardens Road</i> —Union Turnpike to Iris Place.....	2,500
† <i>Caspian Street</i> —Andrews Street to Metropolitan Avenue.....	1,584
† <i>Zeidler Street</i> —Andrews Street to Metropolitan Avenue.....	410
† <i>King Place</i> —Caspian Street to Metropolitan Avenue.....	200
† <i>Schroeder Place</i> —Queens Boulevard to Woodside Avenue.....	1,112
† <i>Cox Place</i> —Flushing Avenue to Broad Street.....	840
† <i>Marabel Avenue</i> —Maurice Avenue to Maspeth Avenue.....	1,850
† <i>Clermont Avenue</i> —Maurice Avenue to Hebbard Avenue.....	4,300
† <i>Hampton Street</i> —Baxter Avenue to Maspeth Avenue.....	2,640

\*Amended to conform with amendment to the proceeding.

†Amended to conform with proceeding as reinstituted, to be within the purview of new street opening law. (Chapter 606, Laws 1915.)

	Fect.
† <i>Glean Street</i> —Baxter Avenue to Maspeth Avenue.....	2,850
† <i>Ditmars Avenue</i> —Old Bowery Bay Road to 43d Street.....	8,380
† <i>Van Cott Avenue</i> —Grand Street to Maurice Avenue.....	1,600
† <i>James Street</i> —Rust Street to Flushing Avenue.....	900
† <i>Jay Avenue</i> —Willow Avenue to Mueller Street.....	1,750
† <i>Milton Street</i> —Flushing Avenue to Grand Street.....	1,050
† <i>Ninth Street</i> —Broadway to Jackson Avenue.....	1,300
† <i>Tenth Street</i> —Broadway to Jackson Avenue.....	1,520
† <i>Peel Street</i> —Broadway to Hayes Avenue.....	1,050
† <i>Twelfth Street</i> —Fillmore Avenue to the East River.....	9,687
† <i>Sixth Street</i> —Stryker Avenue to Seventh Street.....	2,050
† <i>Seventh Street</i> —Jackson Avenue to 150 feet south of Stryker Avenue.....	2,800
† <i>Eighth Street</i> —Woodside Avenue to Jackson Avenue.....	3,350
† <i>Willow Avenue</i> —Grand Street to Columbine Avenue.....	1,480
† <i>Marston Avenue</i> —Murray Street to Dunsing Street.....	855
† <i>Dunsing Street</i> —Marston Avenue to Matthew Place.....	182
† <i>Matthew Place</i> —Dunsing Street to Hoogland Street.....	1,040
† <i>Bayreuth Street</i> —Parsons Avenue to Dutchess Street.....	2,530
† <i>Corona Avenue</i> —Hampton Street to Rodman Street.....	9,000
<i>Seventeenth Street</i> —Queens Boulevard to Jackson Avenue.....	5,600
<i>Theodore Street</i> —Astoria Avenue to the East River.....	5,400
	<hr/> 178,814

DRAFT DAMAGE MAPS NOT COMPLETED.

	Fect.
† <i>St. Felix Avenue</i> —Cooper Avenue to Charlotte Place. 60 per cent. completed .....	2,130
<i>Sutphin Road</i> —Hillside Avenue to Jamaica Avenue (Sections 3 and 4, 20 per cent. completed).....	12,925
<i>Campion Street</i> —Jamaica Avenue to Archer Street. 20 per cent. completed..	1,200
<i>Suburban Street</i> —Epsilon Place to Myrtle Avenue. 15 per cent. completed..	2,400
<i>Copeland Avenue</i> —Myrtle Avenue to Proctor Street. 15 per cent. completed.	1,600
<i>Central Avenue</i> —Edsall Avenue to Woodhaven Avenue. 15 per cent. completed .....	5,000
<i>Sothorn Avenue</i> —Queens Boulevard to Lurting Street. Not started.....	6,200
<i>Firth Avenue</i> —Grand Street to Metropolitan Avenue. Not started.....	5,900
<i>Lowell Avenue</i> —Metropolitan Avenue to Woodhaven Avenue. Not started.	6,270
<i>Alden Avenue</i> —Long Island Railroad to Pansy Street. Not started.....	2,500
<i>Fresh Pond Road</i> —Myrtle Avenue to 200 feet south of Anna Place. Not started .....	2,680
<i>Thew Avenue</i> —Corinth Avenue to Satterlee Avenue. Not started.....	6,000
<i>Rockaway Boulevard</i> —Elderts Lane to Ocean Avenue. 50 per cent. completed .....	7,670
<i>Caldwell Avenue</i> —Harriet Avenue to Queens Boulevard. 90 per cent. completed .....	7,240
<i>Maure Avenue</i> —Metropolitan Avenue to Wisner Place; Atlantic Avenue to Liberty Avenue. Not started .....	4,800
* <i>Whitlock Avenue</i> —Brown Place to Nassau Avenue. Not started.....	3,300
* <i>Homan Avenue</i> —Division Avenue to Calamus Avenue. Not started.....	380

\*Amended to conform with amendment to the proceeding.

†Amended to conform with proceeding as reinstituted, to be within the purview of new street opening law. (Chapter 606, Laws 1915.)

	Feet.
<i>Seventy-ninth Street</i> —Liberty Avenue to Vienna Avenue. 80 per cent. completed .....	3,883
<i>Eightieth Street</i> —Atlantic Avenue to Liberty Avenue. 80 per cent. completed .....	1,970
<i>Archer Street</i> —Van Wyck Avenue to Branford Street. Not started.....	4,500
<i>Broadway</i> —Newtown Road to Queens Boulevard. Not started.....	12,000
<i>Woodside Avenue</i> —Skillman Avenue to Broadway. Not started.....	6,200
<i>Sheridan Avenue</i> —Flynn Avenue to Spring Creek. Not started.....	1,630
	108,378

PROFILE MAPS COMPLETED AND FORWARDED TO THE BOARD OF ESTIMATE AND APPORTIONMENT FOR APPROVAL.

	Feet.
<i>Smith Street</i> —Brinkerhoff Avenue to Ulster Avenue.....	2,400
<i>Brinkerhoff Avenue</i> —Smith Street to Spangler Street.....	
<i>Spangler Street</i> —Brinkerhoff Avenue to Lambertville Avenue.....	
<i>Ulster Avenue</i> —Smith Street to Westchester Avenue.....	
<i>Westchester Avenue</i> —Ulster Avenue to 117th Avenue.....	
<i>One Hundred and Seventeenth Avenue</i> —Westchester Avenue to Dearborn Avenue .....	17,000
<i>Dearborn Avenue</i> —117th Avenue to City Line.....	
* <i>Bayreuth Street</i> —Murray Street to Dutchess Street.....	2,530
<i>Huntington Street</i> —Liberty Avenue to Digby Street .....	666
* <i>Lambertville Avenue</i> —Sutphin Road to Merrick Road.....	3,700
* <i>Spangler Street</i> —Brinkerhoff Avenue to Ulster Avenue.....	2,400
* <i>Brinkerhoff Avenue</i> —Smith Street to Spangler Street.....	
* <i>Smith Street</i> —Brinkerhoff Avenue to Ulster Avenue.....	
* <i>Ulster Avenue</i> —Smith Street to Westchester Avenue.....	
* <i>Westchester Avenue</i> —Ulster Avenue to 117th Avenue.....	
* <i>One Hundred and Seventeenth Avenue</i> —Westchester Avenue to Dearborn Avenue .....	17,000
* <i>Dearborn Avenue</i> —117th Avenue to the City Line.....	
	45,696

FINAL DAMAGE MAPS COMPLETED AND FORWARDED TO THE CORPORATION COUNSEL.

	Feet.
<i>Queens Boulevard</i> —Van Dam Street to Hillside Avenue.....	35,000
<i>Second Street</i> —Howell Avenue to Jackson Avenue.....	1,380
<i>Third Street</i> —Queens Boulevard to Woodside Avenue.....	3,260
<i>Opdyke Street</i> —Corona Avenue to Tiemann Avenue.....	2,030
<i>Corona Avenue</i> —Hampton Street to Rodman Street.....	9,000
* <i>Young Street</i> —Review Avenue to Hunterspoint Avenue.....	2,038
<i>Caspian Street</i> —Andrews Street to Metropolitan Avenue.....	1,584
<i>Zeidler Street</i> —Andrews Street to Metropolitan Avenue.....	410
<i>King Place</i> —Caspian Street to Metropolitan Avenue.....	200
<i>Columbia Avenue</i> —Laurel Hill Boulevard to Queens Boulevard.....	170
<i>Jay Avenue</i> —Willow Avenue to Mueller Street.....	1,750
<i>Seneca Avenue</i> —Brooklyn Borough Line to De Kalb Avenue; Summerfield Street to St. Felix Avenue.....	1,440
<i>Riker Avenue</i> —Steinway Avenue to Twelfth Street.....	2,850
<i>Bayreuth Street</i> —Parsons Avenue to Dutchess Street .....	2,530

\*Amended to conform with amendment to the proceeding.

	Feet.
<i>Corona Avenue</i> —Maurice Avenue to Broadway.....	630
<i>St. James Street</i> —Maurice Avenue to Broadway.....	960
<i>Glean Street</i> —Baxter Avenue to Kingsland Avenue.....	2,850
<i>Hampton Street</i> —Baxter Avenue to Kingsland Avenue.....	2,640
<i>Ninth Street</i> —Broadway to Jackson Avenue.....	1,300
<i>Tenth Street</i> —Broadway to Jackson Avenue.....	1,520
<i>Peel Street</i> —Broadway to Hayes Avenue.....	1,050
<i>Schroeder Place</i> —Queens Boulevard to Woodside Avenue.....	1,112
<i>Kimball Avenue</i> —Liberty Avenue, near Digby Street to Liberty Avenue, near Baker Avenue .....	12,250
<i>Rockaway Road</i> —Conduit to City Line .....	16,860
<i>Ditmars Avenue</i> —Bowery Bay Road to 43d Street.....	8,380
* <i>Pierce Avenue</i> —Jackson Avenue to the East River.....	7,797
<i>Lambertville Avenue</i> —Sutphin Road to Merrick Road.....	3,700
<i>Kew Gardens Road</i> —Union Turnpike to Iris Place.....	1,055
<i>Marston Avenue</i> —Murray Street to Dunsing Street.....	855
<i>Dunsing Street</i> —Marston Street to Matthew Place.....	182
<i>Matthew Place</i> —Dunsing Street to Hoogland Street.....	1,040
<i>Burrough Avenue</i> —Borden Avenue to Woodside Avenue.....	5,730
<i>Proctor Street</i> —Metropolitan Avenue to Myrtle Avenue.....	3,835
<i>McComb Place</i> —Myrtle Avenue to Edsall Avenue .....	1,550
<i>Cox Place</i> —Flushing Avenue to Broad Street .....	840
<i>Marabel Avenue</i> —Maurice Avenue to Maspeth Avenue.....	1,850
<i>Clermont Avenue</i> —Maurice Avenue to Fresh Pond Road.....	4,300
<i>Atlantic Avenue</i> —Brooklyn Borough Line to Van Wyck Avenue.....	15,225
<i>Van Pelt Street</i> —Borden Avenue to Skillman Avenue.....	37,225
<i>Spangler Street</i> —Brinkerhoff Avenue to Lambertville Avenue.....	2,400
<i>Smith Street</i> —Brinkerhoff Avenue to Ulster Avenue.....	
<i>Brinkerhoff Avenue</i> —Smith Street to Spangler Street.....	
<i>Adriatic Street</i> —Collins Avenue to Fresh Pond Road.....	1,125
	168,408

#### FINAL DAMAGE MAPS NOT COMPLETED.

	Feet.
<i>Calamus Avenue</i> —Maurice Avenue to Woodhaven Avenue. 80 per cent. completed .....	7,435
<i>Whillock Avenue</i> —Brown Place to Nassau Avenue. 50 per cent. com- pleted .....	3,300
<i>Homan Avenue</i> —Division Street to Calamus Avenue. 50 per cent. com- pleted .....	380
* <i>Vermont Avenue</i> —Brooklyn Borough Line to Cypress Avenue. 40 per cent. completed .....	4,450
<i>Ziegler Avenue</i> —Bayreuth Street to Willets Point Road. Not started.....	6,470
<i>Liberty Avenue</i> —Brooklyn Borough Line to Van Wyck Avenue. Not started.....	15,540
<i>Sutphin Road</i> —Hillside Avenue to Jamaica Avenue; Long Island Railroad to Rockaway Boulevard. Not started .....	12,925
<i>Campion Street</i> —Jamaica Avenue to Archer Street. Not started.....	1,200
<i>Twelfth Street</i> —Fillmore Avenue to the East River. Not started.....	9,687
<i>Ulster Avenue</i> —Smith Street to Westchester Avenue.....	17,000
<i>Westchester Avenue</i> —Ulster Avenue to 117th Avenue. Not started.....	
<i>One Hundred and Seventeenth Street</i> —Westchester Avenue to Dearborn Street. Not started .....	
<i>Dearborn Avenue</i> —117th Avenue to City Line. Not started.....	

\*Amended to conform with amendment to the proceeding.



	Acres.
<i>Columbia Avenue</i> —Laurel Hill Boulevard to Queens Boulevard.....	6.0
<i>Jay Avenue</i> —Willow Avenue to Mueller Street.....	8.0
<i>Seneca Avenue</i> —Brooklyn Borough Line to DeKalb Avenue .....	30.0
<i>Seneca Avenue</i> —Summerfield Street to St. Felix Avenue.....	30.0
<i>Riker Avenue</i> —Steinway Avenue to Twelfth Street.....	79.5
<i>Bayreuth Street</i> —Parsons Avenue to Dutchess Street.....	17.0
<i>Corona Avenue</i> —Maurice Avenue to Broadway.....	} 24.0
<i>St. James Street</i> —Maurice Avenue to Broadway.....	
<i>Glean Street</i> —Baxter Avenue to Kingsland Avenue.....	} 29.0
<i>Hampton Street</i> —Baxter Avenue to Kingsland Avenue.....	
<i>Schroeder Place</i> —Queens Boulevard to oWodside Avenue.....	14.0
<i>Kimball Avenue</i> —Liberty Avenue near Digby Street to Liberty Avenue near Baker Avenue .....	197.0
<i>Ninth Street</i> —Broadway to Jackson Avenue.....	} 24.1
<i>Tenth Street</i> —Broadway to Jackson Avenue.....	
<i>Peel Street</i> —Broadway to Hayes Avenue.....	} 799.0
<i>Rockaway Road</i> —Conduit to the City Line.....	
<i>Ditmars Avenue</i> —Bowery Bay Road to 43d Street.....	490.0
* <i>Pierce Avenue</i> —Jackson Avenue to the East River.....	125.0
<i>Lambertville Avenue</i> —Sutphin Road to Merrick Road.....	261.0
<i>Kew Gardens Road</i> —Union Turnpike to Iris Place.....	39.5
<i>Marston Avenue</i> —Murray Street to Dunsing Street.....	} 10.0
<i>Dunsing Street</i> —Marston Avenue to Matthew Place.....	
<i>Matthew Place</i> —Dunsing Street to Hoogland Street.....	} 50.0
<i>Burrough Avenue</i> —Borden Avenue to Woodside Avenue.....	
<i>Proctor Street</i> —Metropolitan Avenue to Myrtle Avenue.....	} 53.00
<i>McComb Place</i> —Myrtle Avenue to Edsall Avenue.....	
<i>Cox Place</i> —Flushing Avenue to Broad Street.....	} 79.0
<i>Marabel Avenue</i> —Maurice Avenue to Maspeth Avenue.....	
<i>Clermont Avenue</i> —Maurice Avenue to Fresh Pond Road.....	} 212.0
<i>Atlantic Avenue</i> —Brooklyn Borough Line to Van Wyck Avenue.....	
<i>Van Pelt Street</i> —Borden Avenue to Skillman Avenue.....	22.0
* <i>Ashland Street</i> —Cypress Hills Cemetery to Myrtle Avenue; Birch Street to Spruce Street; North Conduit Avenue to Metropolitan Avenue.....	317.0
<i>Spangler Street</i> —Brinkerhoff Avenue to Lambertville Avenue.....	} 61.0
<i>Smith Street</i> —Brinkerhoff Avenue to Ulster Avenue.....	
<i>Adriatic Street</i> —Collins Avenue to Fresh Pond Road.....	8.7
	4,861.0

#### BENEFIT MAPS NOT COMPLETED.

<i>Calamus Avenue</i> —Maurice Avenue to Woodhaven Avenue. 30 per cent completed.	
<i>Whitlock Avenue</i> —Brown Place to Nassau Avenue. 10 per cent. completed.	
<i>Homan Avenue</i> —Division Street to Calamus Avenue. 10 per cent. completed.	
<i>Vermont Avenue</i> —Brooklyn Borough Line to Cypress Avenue. 40 per cent. completed.	
<i>Ziegler Avenue</i> —Bayreuth Street to Willets Point Road. 60 per cent. completed.	
<i>Liberty Avenue</i> —Brooklyn Borough Line to Van Wyck Avenue. 90 per cent. completed.	
<i>Sutphin Road</i> —Hillside Avenue to Jamaica Avenue; L. I. R. R. to Rockaway Boulevard. 40 per cent. completed.	
<i>Campion Street</i> —Jamaica Avenue to Archer Street. 40 per cent. completed.	

\*Amended to conform with amendment to the proceeding.



*Twelfth Street*—Fillmore Avenue to East River. 30 per cent. completed.  
*Ulster Avenue*—Smith Street to Westchester Avenue. 5 per cent. completed.  
*Westchester Avenue*—Ulster Avenue to 117th Avenue. 5 per cent. completed.  
*One Hundred and Seventeenth Avenue*—Westchester Avenue to Dearborn Avenue. 5 per cent. completed.  
*Dearborn Avenue*—117th Avenue to City Line. 5 per cent. completed.  
*Lowell Avenue*—Metropolitan Avenue to Woodhaven Avenue. Not started.  
*St. Felix Avenue*—Cooper Avenue to Charlotte Place. Not started.  
*Mazeau Street*—Falkner Street to Metropolitan Avenue. Not started.  
*Fulton Street*—Fisk Avenue to Plover Place. Not started.  
*Willow Avenue*—Grand Street to Columbine Avenue. Not started.  
*Ferriss Street*—Kaiser Street to Forest Parkway. Not started.  
*Seventeenth Avenue*—Winthrop Avenue to Berrian Avenue. Not started.  
*Milton Street*—Flushing Avenue to Grand Street. Not started.  
*Huntington Street*—Liberty Avenue to Digby Street. Not started.  
*Radcliff Street*—Waldron Avenue to 300 feet west of Flushing River. Not started.  
*Strong Street*—Waldron Avenue to 300 feet west of Flushing River. Not started.  
*Fisk Avenue*—Queens Boulevard to Broadway. Not started.  
*Thirty-third Street*—Jackson Avenue to Roosevelt Avenue. Not started.  
*Case Street*—Elmhurst Avenue to Roosevelt Avenue. Not started.  
*Seventeenth Street*—Queens Boulevard to Jackson Avenue. Not started.  
*Mitchell Avenue*—Whitestone Avenue to Dunsing Street. Not started.  
*Connorton Avenue*—Parsons Avenue to Dunsing Street. Not started.  
*Suburban Street*—Epsilon Place to Myrtle Avenue. Not started.  
*Copeland Avenue*—Proctor Street to Myrtle Avenue. Not started.  
*Central Avenue*—Edsall Avenue to Woodhaven Avenue. Not started.  
*Theodore Street*—Astoria Avenue to East River. Not started.  
*Caldwell Avenue*—Harriet Avenue to Queens Boulevard. Not started.  
*Amity Street*—Wateredge Avenue to Main Street. Not started.  
*Thew Avenue*—Corinth Avenue to Satterlee Avenue. Not started.  
*Firth Avenue*—Grand Street to Metropolitan Avenue. Not started.  
*Rockaway Boulevard*—Elderts Lane to Ocean Avenue. Not started.  
*Maure Avenue*—Metropolitan Avenue to Wisner Place. Not started.  
*Maure Avenue*—Atlantic Avenue to Liberty Avenue. Not started.  
*Fresh Pond Road*—Myrtle Avenue to 200 feet south of Anna Place. Not started.  
*79th Street*—Liberty Avenue to Vienna Avenue. Not started.  
*80th Street*—Atlantic Avenue to Liberty Avenue. Not started.  
*Archer Street*—Van Wyck Avenue to Archer Street. Not started.  
*Sothorn Avenue*—Queens Boulevard to Lurting Street. Not started.  
*Broadway*—Newtown Road to Queens Boulevard. Not started.  
*Woodside Avenue*—Skillman Avenue to Broadway. Not started.  
*Sheridan Avenue*—Flynn Avenue to Spring Creek. Not started.

#### LEGAL OPENING PROCEEDINGS AUTHORIZED BY THE LOCAL BOARDS.

*Amory Street*—Stanhope Street to Bleeker Street. January 14.  
*Bertha Place*—Myrtle Avenue to Edsall Avenue. May 6.  
*Blake Avenue*—Hudson Street to North Conduit Avenue. January 14.  
*Blake Avenue*—Hudson Street to Hatch Avenue. May 27.  
*Chichester Avenue*—Greenwood Avenue to Napier Avenue, and Cedar Avenue to Hamilton Avenue. December 22.  
*Constantia Place*—Edsall Avenue to Myrtle Avenue. May 6.  
*Emerald Street*—Atlantic Avenue to North Conduit Avenue. February 11.  
*Fitting Street*—Barnett Avenue to Nelson Avenue. December 9.  
*Genesee Street*—Vienna Avenue to Wortman Avenue. September 2.

- Genesee Street*—Glenmore Avenue to Vienna Avenue. January 14.  
*Harold Avenue*—Queens Boulevard to Borden Avenue. May 27.  
*Heiser Street*—Barnett Avenue to Greenpoint Avenue. December 9.  
*Hudson Street*—Atlantic Avenue to Blake Avenue. January 14.  
*Locust Street*—Barnett Avenue to Skillman Avenue. December 9.  
*Lowery Street*—Skillman Avenue to Borden Avenue. September 23.  
*Middagh Street*—Fairbanks Avenue to the westerly line of old Grove Street. September 23.  
*Morton Avenue*—Central Avenue to Metropolitan Avenue. January 14.  
*North Conduit Avenue*—Sutter Avenue to Blake Avenue. May 27.  
*North Conduit Avenue*—Blake Avenue to Genesee Street. January 14.  
*Ocean Parkway*—and proposed park from the northerly line of the Parkway to the high water mark of the Atlantic Ocean, between Beach 126th Street and Beach 141st Street. December 9.  
*Pitkin Avenue*—Brooklyn Borough Line to Sutter Avenue. March 4.  
*Sheridan Avenue*—Northwesterly line of Flynn Avenue to the northwesterly mean high water line of Spring Creek. June 17.  
*South Street*—New York Avenue to Waltham Street. December 22.  
*Spruce Street*—Atlantic Avenue (North) to Atlantic Avenue (South). February 26.  
*Stanhope Street*—Property line about 351.9 feet northeast of Grandview Avenue to Metropolitan Avenue. January 14.  
*Sutter Avenue*—Brooklyn Borough Line to Hatch Avenue. September 2.  
*Trautwine Street*—Fisk Avenue to Ramsey Street. September 2.  
*Ulsier Avenue*—Sutphin Road to Smith Street. February 26.  
*Woodside Avenue*—Skillman Avenue to Broadway. June 17.  
*43d Street*—Ditmars Avenue to a property line 265 feet north of Burnside Avenue. September 23.  
*85th Street*—Rockaway Plank Road to 101st Avenue. September 2.  
*92d Avenue*—Brooklyn Borough Line to 84th Street. July 8.  
*123d Street*—Metropolitan Avenue to Ashland Street. May 28.  
*194th Street*—Jamaica Avenue to 109th Avenue. February 26.  
*195th Street*—99th Avenue to 98th Avenue. December 22.  
*198th Street*—Jamaica Avenue to Hollis Avenue. February 26.  
*202d Street*—Jamaica Avenue to Hollis Avenue. February 26.  
*223d Street*—110th Avenue to Hempstead Avenue. December 22.

#### MAPS AUTHORIZED BY THE LOCAL BOARDS.

- Map showing *Spruce Street*, open across the Atlantic Avenue Division of the Long Island Railroad. (T. B. No. 517.) February 26.  
 Map recognizing old *Astoria Road*, between Maspeth Avenue and Maurice Avenue. (T. B. No. 528.) July 8.  
 Map (special final) of 194th Street, between Jamaica Avenue and 109th Avenue; of 198th Street, between Jamaica Avenue and Hollis Avenue, and of 202d Street, between Jamaica Avenue and Hollis Avenue. (T. B. No. 540.) February 26.  
 Map changing the lines of *Lincoln Avenue* and *First Street*, between Skillman Avenue and Woodside Avenue. (T. B. No. 542.) June 17.  
 Map recognizing *Old Bowery Bay Road*, between Second Avenue and Hazen street. (T. B. No. 543.) February 11.  
 Map altering the lines of *Penelope Street*, between Queens Boulevard and the Long Island Railroad. (T. B. No. 552.) February 11.  
 Map holding 49th Street, between Polk Avenue and Astoria Avenue, to the width that it is in use upon the ground. (T. B. No. 565.) April 15.  
 Map changing the lines of *Whittier Place*, to include an old lane. (T. B. No. 570.) May 6.

Map altering the street system in the territory bounded by Junction Avenue, Long Island Railroad, Louona Avenue, Corona Avenue and Merrit Place. (T. B. No. 582.) September 23.

Map recognizing *Forest Street*, between Lee Avenue and Lenox Avenue. (T. B. No. 591.) October 14.

Map changing the lines of *Traffic Street*, and of *Madison Street*. (T. B. No. 600.) September 2.

Map reducing the width of *Ferriss Street*, between Benedict Avenue and Columbia Avenue. (T. B. No. 611.) December 22.

Map (special final) of *223d Street*, between 110th Avenue and Hempstead Avenue. (T. B. No. 607.) December 22.

Map altering the lines of *Chichester Avenue*, between Cedar Avenue and Hamilton Avenue, and between Napier Avenue and Greenwood Avenue. (T. B. No. 606.) December 22.

Map eliminating *Beaufort Avenue*, between Napier Avenue and Briggs Avenue. (T. B. No. 612.) December 22.

Map holding *40th Street*, between Lake Avenue and Jackson Mill Road, to the width that it is in use upon the ground. April 15. (Subject to the approval of the Board of Estimate and Apportionment, who considered the matter on May 21 (Calendar No. 92), and referred it to the Board's Chief Engineer.)

Map holding *42d Street*, between Roosevelt Avenue and Astoria Avenue, to the width that it is in use upon the ground. May 6. (Subject to the approval of the Board of Estimate and Apportionment, who considered the matter on June 4 (Calendar No. 42), and referred it to the Board's Chief Engineer.)

Map eliminating *Beaufort Avenue*, between Napier Avenue and Briggs Avenue, and reducing its width between Rockaway Boulevard and Napier Avenue. February 26. (Subject to the approval of the Board of Estimate and Apportionment, who considered the matter on March 19 (Cal. No. 120) and referred it to the Board's Chief Engineer.)

#### RESCISSIONS.

*Alburtis Avenue*—Fillmore Avenue to Polk Avenue. By the Local Board January 14.

*Archer Street*—Van Wyck Avenue to Ezra Place. By the Board of Estimate and Apportionment July 9.

*Fresh Pond Road*—Myrtle Avenue to 200 feet south of Anna Place. By the Local Board September 23; by the Board of Estimate and Apportionment December 23.

*Horton Street*—Broadway to Junction Avenue. By the Local Board July 6; by the Board of Estimate and Apportionment July 29.

*Jennings Street*—Justice Street to Junction Avenue. By the Local Board July 6; by the Board of Estimate and Apportionment July 29.

*Maurice Avenue*—Broadway to Junction Avenue. By the Local Board July 6; by the Board of Estimate and Apportionment July 29.

*North Curtis Avenue*—Metropolitan Avenue to Ridgewood Avenue. By the Local Board May 28.

*North Villa Street*—Metropolitan Avenue to Jamaica Avenue. By the Local Board May 28.

*North Vine Street*—Ridgewood Avenue to Ashland Street. By the Local Board May 28, 1915.

*State Street*—Murray Street to 31st Street. By the Local Board June 24.

*Sycamore Place*—Maure Avenue to the L. I. R. R. By the Local Board January 22.

*Union Hall Street*—South Street to Tuckahoe Avenue. By the Local Board May 28.

*Waldron Street*—Corona Avenue to Rodman Street. By the Local Board June 17.  
*Yarmouth Street*—Ashland Street to Atlantic Avenue, and Atlantic Avenue to Jerome Avenue. By the Local Board September 30.

*Forest Avenue*—Metropolitan Avenue to Catalpa Avenue, Halleck Avenue to Myrtle Avenue, and Summerfield Street to the northwesterly line of the Manhattan Beach Division of the Long Island Railroad. By the Local Board May 6; by the Board of Estimate and Apportionment May 14.

*15th Street*—Broadway to Mitchell Avenue. By the Local Board June 24; by the Board of Estimate and Apportionment August 26.

*17th Street*—Mitchell Avenue to Franconia Avenue. By the Local Board July 23; by the Board of Estimate and Apportionment August 26.

*18th Street*—Mitchell Avenue to Broadway, and Cypress Avenue to Oak Avenue. By the Local Board June 24; by the Board of Estimate and Apportionment August 26.

*25th Street*—Baxter Avenue to Jackson Avenue. By the Local Board June 17.

*40th Street*—Lake Street to Berrian Avenue. By the Local Board April 15.

*42d Street*—North Railroad Avenue to Wharf Street. By the Local Board May 6.

*46th Street*—Astoria Avenue to Roosevelt Avenue. By the Local Board April 15.

#### VESTING IN LEGAL OPENING PROCEEDINGS.

*Third Street*—Jackson Avenue to southerly side of Polk Avenue. April 1.

*Seventeenth Street*—Parcels 40, 41 and 59 (between Polk Avenue and Roosevelt Avenue). (On filing of Commissioners' oaths).

*Brinkerhoff Avenue*—Spangler Street to Smith Street. December 18.

*Columbia Avenue*—Laurel Hill Boulevard to Queens Boulevard. June 26.

*Elmhurst Avenue*—Parcels 59 and 145 (between Case Street and Roosevelt Avenue). December 15.

*Fisk Avenue*—Parcels 14, 15, 18, 40, 41, 42 and 58 (between Fairbanks Avenue and Roosevelt Avenue). On filing of Commissioners' oaths.

*Lambertville Avenue*—Parcels 2 to 176 inclusive, except Parcels 5, 24, 25, 33, 94, 107, 115, 119 and 175 (between Spangler Street and Sutphin Road). December 18.

*Opdyke Street*—Alburtis Avenue to Tiemann Avenue. December 28.

*Queens Boulevard*—Broadway to Kelvin Street, and Quentin Street to Hillside Avenue, except Parcel 517. August 2.

*Smith Street*—Brinkerhoff Avenue to Ulster Avenue. December 18.

*Spangler Street*—Brinkerhoff Avenue to Lambertville Avenue. December 18.

*Britton Avenue*—Broadway to Ithaca Street. May 3.

*Britton Avenue*—Forley Street to Ithaca Street. July 1.

*Ulster Avenue*—Parcels 3, 4, 5 and 6 (between Smith Street and Merrick Road). December 18.

*Decatur Street*—Brooklyn Borough Line to Wyckoff Avenue. April 1.

*Decatur Street*—Cypress Avenue to Wyckoff Avenue. May 3.

*Perry Avenue*—Broad Street to Mueller Street. April 1

*Perry Avenue*—Damage Parcel No. 1.

*Perry Avenue*—Clark Avenue to Maurice Avenue. July 1.

*Hancock Street*—Bodine Street to Nott Avenue. April 1.

#### CONFIRMATIONS IN LEGAL OPENING PROCEEDINGS.

*Cypress Avenue*—16th Street to Broadway. February 27.

*30th Street*—Cypress Avenue to Broadway. February 27.

*Remsen Avenue*—Calamus Avenue to Gwydir Street. April 17.

*18th Street*—Cypress Avenue to Broadway. May 8.

*Alstyne Avenue*—Card Place to Radcliff Street. April 14

*Seattle Street*—Chichester Avenue to Liberty Avenue. June 2.

*Bryant Avenue*—Beuson Avenue to Laurel Hill Boulevard. June 9.  
*Holmes Avenue*—Queens Boulevard to Tyler Avenue. June 9.  
*Irving Street*—Queens Boulevard to Tyler Avenue. June 9.  
*Longfellow Avenue*—Queens Boulevard to Tyler Avenue. June 9.  
*Harris Avenue*—Jackson Avenue to Vernon Avenue. May 14.  
*Hull Avenue*—Montgomery Avenue to Berlin Avenue; Broad Street to Mueller Street. May 8.  
*School Street*—Thomson Avenue to 100 feet north of Nott Avenue. June 30.  
*Hill Street*—Skillman Avenue to Gale Street. June 30.  
*Rawson Street*—Skillman Avenue to Hunterspoint Avenue. June 30.  
*Honeywell Street*—Queens Boulevard to Hunterspoint Avenue. June 30.  
*Buckley Street*—Skillman Avenue to Hunterspoint Avenue. June 30.  
*Newtown Road*—Jackson Avenue to 13th Avenue. June 18.  
*Myrtle Avenue*—Lawrence Street to Flushing Creek. May 29.  
*Monroe Street*—Betts Avenue to Fisk Avenue. May 29.  
*Prospect Street*—Hunter Avenue to Webster Avenue. June 30.  
*Remington Street*—Chichester Avenue to Beaufort Avenue. September 28.  
*Clark Avenue*—Rust Street to Perry Avenue. September 10.  
*Rust Street*—Clinton Avenue to Flushing Avenue. September 10.  
*Perry Avenue*—Rust Street to Clark Avenue. September 10.  
*Cassel Street*—Hobson Avenue to Berlin Avenue; Broad Street to Jay Avenue. November 29.  
*Central Avenue*—Myrtle Avenue to Edsall Avenue. November 29.  
*Perry Avenue*—Clark Avenue to Mueller Street. December 15.  
*South Villa Street*—Liberty Avenue to Jerome Avenue. November 10.  
*Juniper Avenue*—Metropolitan Avenue to Grand Street. December 10.

CITY STREETS BY DEDICATION, ACCORDING TO OPINIONS RENDERED BY THE CORPORATION COUNSEL.

	Feet.
<i>Aberdeen Road</i> —Doncaster Boulevard to Chevy Chase. December 7.....	2,400
<i>Alpha Place</i> —Myrtle Avenue to Suburban Street. September 16.....	480
<i>Audley Street</i> —St. Ann's Avenue to Mayfair Road. May 1.....	850
<i>Augustina Place</i> —Wheatley Street to Townley Avenue. August 20.....	650
<i>Aza Place</i> —Putney Road to Devonshire Road. December 7.....	400
<i>Avon Road</i> —Dalny Road to Kent Road. December 7.....	2,200
<i>Bandman Avenue</i> —West Street to Roseville Avenue. September 25.....	2,700
<i>Banks Avenue</i> —Astoria Avenue to Ditmars Avenue. January 23.....	900
<i>Barclay Street</i> —Ditmars Avenue to Hoyt Avenue. January 8.....	3,000
<i>Barkins Street</i> —Corona Avenue to Martense Street. May 10.....	1,600
<i>Bayside Avenue</i> —Farrington Street to Congress Avenue. December 7.....	600
<i>Bayside Place</i> —Jamaica Bay to angle point at Railroad. July 1.....	850
<i>Beaufort Avenue</i> —Farmers Avenue to Hollis Avenue. March 22.....	800
<i>Beechurst Avenue</i> —Willets Point Road to Crocheron Avenue. August 20....	7,000
<i>Belleville Street</i> —Pacific Street to 100 feet south of Place Street. August 20.	1,700
<i>Bergensfields Street</i> —New York Avenue northeasterly about 650 feet to a brook. June 2.....	650
<i>Blanco Place</i> —Van Wyck Avenue to Allendale Street. February 22.....	1,350
<i>Branchville Place</i> —New York Avenue northeasterly about 600 feet to a brook. May 26 .....	800
<i>Buell Place</i> —Banks Avenue to a property line about 25 feet west of 51st Street. February 18.....	500
<i>Burnside Avenue</i> —47th Street to 50th Street. February 9.....	700
<i>Butler Street</i> —Schurz Avenue to Banks Avenue. February 19.....	1,830



	Feet.
<i>Caldwell Avenue</i> —Queens Boulevard to Corinth Avenue. July 1.....	2,580
<i>Campion Street</i> —Jamaica Avenue to Hillside Avenue. June 1.....	800
<i>Canonbury Road</i> —Melrose Avenue to a property line 100 feet east of Harvard Avenue. October 8 .....	2,000
<i>Carlisle Street</i> —Maywood Street to Liberty Avenue. April 13.....	850
<i>Charlecote Road</i> —Doncaster Boulevard to Croydon Road. December 7....	1,000
<i>Chevy Chase Road</i> —Tudor Road to Midland Parkway. December 7.....	850
<i>Chichester Avenue</i> —Oxford Avenue to a property line 80 feet west of Portland Avenue. August 16 .....	450
<i>Chisholm Avenue</i> —Mamaroneck Street to Quinlan Place. May 3.....	950
<i>Church Street</i> —St. Anns Avenue to Metropolitan Avenue. May 5.....	1,050
<i>Claude Place</i> —New York Avenue northeastwardly about 600 feet to a brook. May 26 .....	600
<i>Columbia Avenue</i> —Grand Street to Van Tassel Street. July 9.....	1,800
<i>Cornish Street</i> —Broadway to Queens Boulevard. May 5.....	1,400
<i>Connorton Avenue</i> —Whitestone Avenue to Brewster Avenue. January 19..	1,350
<i>Cooper Avenue</i> —Myrtle Avenue to Trotting Course Lane. December 28....	7,450
<i>Couch Place</i> —Banks Avenue to Astoria Avenue. October 28.....	460
<i>Creek Street</i> —Grand Avenue to Flushing Avenue. December 7.....	900
<i>Crouston Avenue</i> —B. 141st Street to B. 124th Street. August 26.....	4,250
<i>Crosby Avenue</i> —Vermont Avenue to a property line about 150 feet south of Bulwer Place. December 28.....	700
<i>Croydon Road</i> —Home Lawn Avenue to Midland Parkway. December 7....	2,100
<i>Curtis Street</i> —Schurz Avenue to Banks Avenue. February 18.....	1,830
<i>Dalny Road</i> —Wexford Terrace to Avon Road. December 7.....	2,500
<i>De Boe Place</i> —Myrtle Avenue to Suburban Street. October 16.....	430
<i>Devonshire Road</i> —Ava Place to Dalny Road. December 7.....	700
<i>Diamond Street</i> —Jamaica Avenue to Atlantic Avenue. March 16.....	2,050
<i>Doncaster Boulevard</i> —Home Lawn Avenue to Avon Road. December 7....	2,500
<i>Douglaston Avenue</i> —Jackson Avenue to 28th Road. August 20.....	2,950
<i>Edgerton Boulevard</i> —Hillside Avenue to Doncaster Road. December 7....	2,500
<i>Edgerton Place</i> —Doncaster Boulevard, northerly about 300 feet. December 7	300
<i>Ericsson Street</i> —Grand Avenue to Banks Avenue. February 19.....	1,280
<i>Farrington Street</i> —Broadway to Bayside Avenue. November 15.....	2,200
<i>Fisk Avenue</i> —Woodside Avenue to Roosevelt Avenue. June 25.....	1,250
<i>Fresh Pond Road</i> —As included within the line of Kassuth Place and Lotus Avenue. March 22.....	1,400
<i>Fulton Street</i> —Vandermeer Avenue to the Long Island Railroad. March 28.	750
<i>Gale Street</i> —Greenpoint Avenue to a property line about 100 feet southeasterly of Van Dam Street. April 28.....	1,000
<i>Gildersleeve Avenue</i> —Rosedale Avenue to a property line about 300 feet east of Clifton Avenue. July 12.....	1,100
<i>Gilmore Street</i> —Schurz Avenue to Banks Avenue. February 23.....	1,830
<i>Globe Avenue</i> —Pacific Street to Atlantic Street. August 20.....	1,250
<i>Grand Avenue</i> —Ditmars Avenue to 43d Street. February 23.....	1,800
<i>Guinsburg Place</i> —Roseville Avenue to Catherine Street. May 5.....	900
<i>Hayes Avenue</i> —Lent Street to Junction Avenue. April 20.....	3,600
<i>Henley Road</i> —Devonshire Road to Avon Road. December 7.....	2,900
<i>Himrod Street</i> —Brooklyn Borough Line to Grand View Avenue. July 1....	2,460
<i>Hooper Street</i> —Myrtle Avenue to Central Avenue. November 15.....	530
<i>Howard Street</i> —Bradley Avenue to Review Avenue. September 16.....	950
<i>Humphreys Street</i> —Manhattan Boulevard to Astoria Avenue. January 23..	1,000
<i>Husson Avenue</i> —Jamaica Avenue to Hillside Avenue. June 2.....	1,250



	Feet.
<i>Jay Avenue</i> —Mueller Street to Willow Street. July 16.....	1,650
<i>Kearney Street</i> —Manhattan Boulevard to Astoria Avenue. January 25.....	450
<i>Kendrick Road</i> —Home Lawn Avenue to Henley Road. December 7.....	1,000
<i>Kent Road</i> —Tudor Road to Chevy Chase Road. December 7.....	1,700
<i>Ketcham Street</i> —Baxter Avenue to Pettit Place. October 7.....	780
<i>Koerner Street</i> —L. I. R. R. to a property line 230 feet north of Wool Street. July 1.....	670
<i>Laurel Hill Boulevard</i> —At intersection with the Montauk Division of the L. I. R. R. November 16.....	100
<i>Leggett Avenue</i> —Jamaica Avenue to Ashland Street. June 4.....	1,300
<i>Lenox Avenue</i> —Woodside Avenue to Roosevelt Avenue. July 28.....	1,350
<i>Lloyd Place</i> —Van Wyck Avenue to Remington Avenue. March 1.....	300
<i>Lyon Avenue</i> —Astoria Avenue to Ditmars Avenue. October 21.....	1,550
<i>McIntosh Street</i> —Columbus Boulevard to Manhattan Boulevard. January 23	630
<i>McKinley Avenue</i> —Myrtle Avenue to Central Avenue. July 10.....	560
<i>Manheim Street</i> —L. I. R. R. to a property line 400 feet north of Wool Street. August 20 .....	750
<i>Martense Street</i> —Corona Avenue to Xenia Street. March 26.....	1,700
<i>Amathias Street</i> —New York Avenue northeasterly about 700 feet to a brook. June 1 .....	650
<i>Mayfair Road</i> —Croydon Road to Kendrick Road. December 7.....	500
<i>Meyers Avenue</i> —Woodside Avenue to Roosevelt Avenue. July 1.....	1,150
<i>Midland Parkway</i> —Hillside Avenue to Chevy Chase Road. December 7....	4,700
<i>Mitchell Avenue</i> —Whitestone Avenue to Brewster Avenue. January 19....	1,500
<i>Murray Lane</i> —Murray Street to Bayside Avenue. January 7.....	1,600
<i>New Haven Avenue</i> —Grassmere Avenue to Bay 19th Street. March 17....	1,600
<i>North Hempstead Turnpike</i> —Jamaica Avenue to Fresh Meadow Road. Feb- ruary 22 .....	4,850
<i>North Curtis Avenue</i> —Jamaica Avenue to Hillside Avenue, and Ashland Street to Metropolitan Avenue. January 4.....	950
<i>North Villa Street</i> —Fulton Place to Ridgewood Avenue. January 11.....	580
<i>North Vine Street</i> —Jamaica Avenue to Ridgewood Avenue. January 4....	860
<i>North Wickes Street</i> —Jamaica Avenue to Hillside Avenue. January 14....	580
<i>North Wickes Street</i> —Ridgewood Avenue to about 100 feet south of Fulton Place, January 11.....	610
<i>Parsons Avenue</i> —Bayside Avenue to Alice Street. January 19.....	1,250
<i>Peartree Avenue</i> —Pell Street to Kingsland Avenue. December 7.....	1,850
<i>Provost Street</i> —Corona Avenue to Tiemann Avenue. April 24.....	1,320
<i>Putney Road</i> —Ava Place to Dalny Road. December 7.....	500
<i>Radnor Road</i> —Kent Road to Dalny Road. December 7.....	2,200
<i>Remington Street</i> —Beaufort Avenue to Liberty Avenue. February 23....	1,200
<i>Rensen Street</i> —Merrick Road to Burr Avenue. July 12.....	1,200
<i>Ridgewood Avenue</i> —North Curtis Avenue to North Vine Street. January 4	185
<i>Ridgewood Avenue</i> —Woodhaven Avenue to Hatch Avenue. January 29....	1,020
<i>Rockaway Beach Boulevard</i> —Bay 125th Street to Seaside Park. March 11..	5,900
<i>Rockaway Turnpike</i> —Three Mile Mill Road to Baisley Avenue. March 1..	800
<i>Rockaway Turnpike</i> —Ocean Promenade to Nassau County Line. May 13..	8,200
<i>Rosedale Avenue</i> —Foster's Meadow Road to Ocean Avenue. August 20....	5,500
<i>Ruby Street</i> —Liberty Avenue to North Conduit Avenue. March 7.....	1,400
<i>St. Nicholas Avenue</i> —Brooklyn Borough Line to Myrtle Avenue. January 19	1,350
<i>Sandol Street</i> —Millwood Avenue to Myrtle Avenue. December 7.....	750
<i>Santell Street</i> —Corona Avenue to Rodman Street. May 3.....	900
<i>Sherman Avenue</i> —Norman Place to Lafayette Avenue. August 19.....	1,200

	Feet.
<i>Spray View Avenue</i> —B. 32d Street to B. 35th Street. April 8.....	800
<i>Station Road</i> —Whitestone Road to Utopia Parkway. March 1.....	2,700
<i>Station Road</i> —Cemetery Lane to a property line about 100 feet west of High-land Avenue. March 1.....	600
<i>Surrey Road</i> —Tudor Road to Midland Parkway. December 7.....	900
<i>Townly Avenue</i> —Far Rockaway Boulevard to Cornaga Avenue. May 13....	1,450
<i>Trotting Course Lane</i> —Queens Boulevard to Nansen Street. May 21.....	5,700
<i>Trotting Course Lane</i> —Union Turnpike to the L. I. R. R. May 21.....	600
<i>Trotting Course Lane</i> —Nannie Place to Myrtle Avenue. May 21.....	750
<i>Tryon Road</i> —Tudor Road to Aberdeen Road. December 7.....	400
<i>Tudor Road</i> —Tryon Road to Chevy Chase Road. December 7.....	2,100
<i>Union Avenue</i> —Lafayette Avenue to Clinton Avenue. July 9.....	1,000
<i>Van Cleef Street</i> —Orontes Street to Westside Street. April 27.....	280
<i>Van Doren Street</i> —Martense Street to Colonial Avenue. March 22.....	2,050
<i>Volant Place</i> —New York Avenue northeasterly about 700 feet to a brook. June 2 .....	700
<i>Wakefield Street</i> —Jackson Avenue to the College Point Village Line. May 7.	2,850
<i>Waldron Street</i> —Martense Street to Saultell Street. March 23.....	1,700
<i>Warham Road</i> —Croydon Road to Dalny Road. December 7.....	1,000
<i>Waters Avenue</i> —Hobson Avenue to Clifton Avenue. November 1.....	750
<i>Weimar Street</i> —Long Island Railroad to 400 feet north of Wool Street. June 29 .....	670
<i>Wexford Terrace</i> —Hillside Avenue to Midland Parkway. December 7.....	1,600
<i>Wilton Avenue</i> —Glasser Street to Cooper Avenue. April 17.....	750
<i>Winslow Place</i> —Second Avenue to a property line about 210 feet east of Second Avenue. August 20.....	210
<i>Wool Street</i> —Grand Street to a property line 95 feet east of Weimar Street. June 29 .....	850
<i>Yarmouth Street</i> —Jamaica Avenue to Ashland Street. June 7.....	1,400
<i>Seventh Street</i> —Van Alst Avenue to East River. January 4.....	2,640
<i>Seventh Street</i> —Jackson Avenue to Burnside Avenue. August 26.....	690
<i>Thirtieth Avenue</i> —Bell Avenue to 221st Street. June 17.....	2,450
<i>Thirty-seventh Street</i> —Roosevelt Avenue to Banta Street. April 30.....	650
<i>Thirty-eighth Street</i> —Jackson Avenue to Jackson Mill Road. August 16....	850
<i>Thirty-ninth Street</i> —Hayes Avenue to Jackson Mill Road. August 19.....	1,350
<i>Fortieth Street</i> —Forest Street to a property line about 300 feet southerly thereof. April 27.....	300
<i>Forty-first Street</i> —Forest Avenue to Burnside Avenue. April 27.....	3,650
<i>Forty-second Street</i> —Burnside Avenue to Roosevelt Avenue. March 1....	2,400
<i>Forty-third Street</i> —Polk Avenue to Burnside Avenue. April 23.....	2,380
<i>Forty-fourth Street</i> —Jackson Avenue to a property line about 300 feet north of Burnside Avenue. December 7.....	950
<i>Forty-fourth Street</i> —Polk Avenue to Fillmore Avenue. April 23.....	450
<i>Forty-ninth Street</i> —Astoria Avenue to Burnside Avenue. June 11.....	360
<i>Eighty-second Avenue</i> —Kew Gardens Road to 134th Street. March 26.....	2,400
<i>One Hundredth Avenue</i> —Hollis Avenue to 204th Street. August 26.....	3,000
<i>One Hundred and Second Avenue</i> —Fourth Avenue to 6th avenue. August 20	1,050
<i>One Hundred and Fourth Avenue</i> —Bennett Avenue to Sherwood Avenue. August 26 .....	1,500
<i>One Hundred and Thirty-eighth Avenue</i> —Foster's Meadow Road to a prop-erty line about 300 feet east of Clifton Avenue. August 18.....	1,400
<i>One Hundred and Ninety-sixth Street</i> —Hollis Avenue to Winfield Place. Sep-tember 26 .....	700

	Feet.
<i>Two Hundred and First Street</i> —99th Avenue to Hollis Avenue. March 26..	2,100
<i>Two Hundred and Fourth Street</i> —Crocheron Avenue to 29th Avenue. June 18	1,650
<i>Two Hundred and Tenth Street</i> —Crocheron Avenue to 29th Avenue. June 18	1,400
<i>Two Hundred and Eleventh Street</i> —Crocheron Avenue to 29th Avenue. June 22 .....	1,400
<i>Two Hundred and Fourteenth Place</i> —Crocheron Avenue to 31st Avenue. June 22 .....	2,250
<i>Two Hundred and Fourteenth Street</i> —Crocheron Avenue to 30th Avenue. June 22 .....	1,800
<i>Two Hundred and Fifteenth Place</i> —Crocheron Avenue to 30th Avenue. June 22 .....	1,800
<i>Two Hundred and Fifteenth Street</i> —Crocheron Avenue to 30th Avenue. June 22 .....	1,800
<i>Two Hundred and Sixteenth Street</i> —Edgewater Lane to 30th Avenue. June 22 .....	1,800
<i>Two Hundred and Sixteenth Street</i> —33d Avenue to Jackson Avenue. December 11 .....	500
<i>Two Hundred and Seventeenth Street</i> —Hempstead Avenue to Hollis Avenue. August 20 .....	1,500
<i>Two Hundred and Seventeenth Street</i> —33d Avenue to Jackson Avenue. December 13 .....	500
<i>Two Hundred and Seventeenth Street</i> —Edgewater Lane to 30th Avenue. June 22 .....	1,750
<i>Two Hundred and Eighteenth Street</i> —Wainscott Avenue to Montauk Avenue. June 17 .....	850
<i>Two Hundred and Nineteenth Street</i> —Wainscott Avenue to 30th Avenue. June 22 .....	850
<i>Two Hundred and Twenty-eighth Street</i> —Rosedale Avenue to Norman Place. August 20 .....	500
<i>Two Hundred and Twenty-ninth Street</i> —Union Avenue to Sherman Avenue. August 19 .....	1,150
<i>Two Hundred and Thirtieth Street</i> —Sherman Avenue to a property line about 475 feet west of Union Avenue. August 20.....	1,650
<i>Two Hundred and Thirty-first Street</i> —Ocean Avenue to a property line about 400 feet west of Union Avenue. August 20.....	2,200
<i>Two Hundred and Thirty-second Street</i> —Ocean Avenue to a property line about 350 feet west of Union Avenue. August 18.....	2,000
<i>Two Hundred and Thirty-third Street</i> —Ocean Avenue to Kinsey Place. July 12 .....	2,050
<i>Beach Thirty-second Street</i> —Spray View Avenue to the Atlantic Ocean. April 17 .....	200
<i>Beach Thirty-third Street</i> —Spray View Avenue to the Atlantic Ocean. July 12 .....	200
<i>Beach Thirty-fourth Street</i> —Atlantic Avenue to the L. I. R. R. July 8.....	1,700
<i>Beach Thirty-fifth Street</i> —Atlantic Avenue to the L. I. R. R. April 14....	1,600
<i>Beach Thirty-sixth Street</i> —Spray View Avenue to the L. I. R. R. July 1... 1,050	
<i>Beach Thirty-seventh Street</i> —Atlantic Avenue to the L. I. R. R. July 14....	1,000
<i>Beach Thirty-eighth Street</i> —Atlantic Avenue to the L. I. R. R. April 6....	900
<i>Beach Forty-first Street</i> —Atlantic Avenue to the L. I. R. R. July 14.....	630
<i>Beach Forty-second Street</i> —Atlantic Avenue to the L. I. R. R. July 28....	600
<i>Beach Seventieth Street</i> —Atlantic Avenue to Amstel Boulevard. September 16 .....	2,100
<i>Beach Eighty-fourth Street</i> —Bayside Place to the L. I. R. R. July 1.....	2,100

	Feet.
<i>Beach Ninety-second Street</i> —L. I. R. R. to the Ocean Boardwalk. May 14..	1,300
<i>Beach Ninety-seventh Street</i> —Atlantic Avenue to Jamaica Bay. June 1....	1,400
<i>Beach One Hundred and First Street</i> —Ocean Avenue to L. I. R. R. July 9..	1,200
<i>Beach One Hundred and Second Street</i> —Ocean Avenue to Jamaica Bay. July 14 .....	1,700
<i>Beach One Hundred and Twenty-fifth Street</i> —Atlantic Avenue to Jamaica Bay. May 13.....	2,600
<i>Beach One Hundred and Twenty-sixth Street</i> —Atlantic Avenue to Jamaica Bay. September 16.....	2,800
<i>Beach One Hundred and Twenty-seventh Street</i> —Atlantic Avenue to Jamaica Bay. August 17 .....	3,000
<i>Beach One Hundred and Twenty-eighth Street</i> —Atlantic Avenue to Jamaica Bay. March 22.....	3,000
<i>Beach One Hundred and Twenty-ninth Street</i> —Atlantic Avenue to Jamaica Bay. August 18.....	3,150
<i>Beach One Hundred and Thirtieth Street</i> —Atlantic Avenue to Jamaica Bay. August 17 .....	3,150
<i>Beach One Hundred and Thirty-first Street</i> —Atlantic Avenue to Jamaica Bay. May 13.....	3,100
<i>Beach One Hundred and Thirty-second Street</i> —Atlantic Avenue to Jamaica Bay. May 24.....	3,150
<i>Beach One Hundred and Thirty-third Street</i> —Atlantic Avenue to Jamaica Bay. August 17.....	3,100
<i>Beach One Hundred and Thirty-fourth Street</i> —Atlantic Avenue to Jamaica Bay. August 18.....	3,100
<i>Beach One Hundred and Thirty-seventh Street</i> —Atlantic Avenue to Jamaica Bay. August 18.....	2,950
<i>Beach One Hundred and Fortieth Street</i> —Atlantic Avenue to Jamaica Bay. August 17 .....	2,950
	324,265

#### DIVISION OF SUBSTRUCTURES AND FRANCHISES.

##### MAPS BEFORE THE BOARD OF ESTIMATE AND APPORTIONMENT PENDING APPROVAL.

Map showing a standard location of substructures for all streets in the Borough of Queens having a roadway width of less than 40 feet. Dated March 17, 1915. (T. B. No. 624.)

Map showing a standard location of substructures for all streets in the Borough of Queens having a roadway width of 40 feet or more. Dated March 17, 1915. (T. B. No. 624.)

##### *Field Corps.*

Number of features located.....	2,450
Number of angles turned.....	48
Number of feet of traverse.....	142,290
Number of feet of curb located.....	82,370
Number of feet of trolley track located.....	22,300
Number of feet of taping.....	180,190
Number of feet of building line located.....	90,800
Number of sewer manholes located.....	355
Number of catch-basins located.....	143
Number of telephone boxes located.....	13
Number of gas-boxes located.....	539
Number of water-boxes located.....	322

Number of power-company boxes located.....	5
Number of street railway boxes located.....	18
Number of poles, etc., on sidewalks located.....	1,055
Number of feet of levels run.....	1,150
Number of boxes, catch-basins, etc., measured in detail.....	1,055
Number of street openings located.....	2,718
Number of feet of subsurface work located.....	253,425
Number of feet of gas-mains located.....	151,709
Number of feet of water-main located.....	76,246
Number of feet of sewer pipe located.....	1,670
Number of feet of power duct located.....	11,440
Number of feet of telephone duct located.....	11,730
Number of feet of miscellaneous pipe located.....	640
Number of visits made—data procured.....	3,300
Number of visits made—no data procured.....	1,693
	<hr/> 4,993

Surveys were completed and notes turned in on 33 record maps covering 15 miles of streets.

#### *Office Corps.*

Plotted topography on 18 record maps.

Plotted detail measurements on 18 record maps.

Plotted test pits on 20 record maps.

Computed and checked 17 record maps.

Copied Water Department and Sewer Bureau notes and data in area covered by field surveys.

Investigated proposed locations for substructures, compiled data for same and assigned locations.

Approved all applications for permits covering subsurface work.

Furnished data to City Departments, Public Service Commission and Public Service corporations.

Examined, indexed and filed all field notes, subsurface data, boring data and franchise information.

Approved all applications for permits covering subsurface work.

#### MISCELLANEOUS.

##### MAPS FILED WITH THIS BUREAU.

Final sections (atlas sheets).....	12
Special final maps.....	6
Alteration maps .....	51
Draught damage maps (original).....	21
Draught damage maps (tracings).....	21
Profile maps .....	8
Benefit maps .....	15
Guaranteed maps .....	2,434
Sales maps .....	40
Miscellaneous .....	8

##### MAPS DISTRIBUTED BY THIS BUREAU.

For official use.....	1,626
Sold to the public.....	296



COPIED AT THE COUNTY CLERK'S OFFICE.

Sales maps (acres).....	1,439
Guaranteed surveys .....	1,600
Deed descriptions .....	540
Searches .....	176
Investigations .....	51

Designed to serve our special needs, thereby saving time and cost of searches, we have started a small title plant of our own at the County Clerk's office, which now contains about 1,500 names, covering individuals, families, grantors, grantees and wills.

BLUE PRINTS MADE BY THIS BUREAU.

For this bureau and other City departments.....	1,960
For the Long Island Railroad.....	29
For the Title Guarantee and Trust Company.....	40
For the U. S. Title Guarantee Company.....	30
For the Lawyers' Title Insurance and Trust Company.....	144
For Clark & Frost.....	44

BUREAU OF BUILDING CONSTRUCTION AND ALTERATION.

REPORT OF THE OPERATIONS OF THE BUREAU OF BUILDING CONSTRUCTION AND ALTERATION FOR THE YEAR ENDED DECEMBER 31, 1915.

The year 1915 shows an increase over the years 1912, 1913 and 1914 which is remarkable, considering the fact that the Building Code has been in process of amendment during this period, and which has always tended to retard building operations until such times as the owners, architects and builders have had time to adjust themselves to the new requirements. The extension of the Fire Limits throughout the borough has proven to be a good thing, causing thereby the erection of more brick buildings than in any former year since consolidation. Its further extension to include the whole of Jackson Avenue to the City line; the entire length of the Queens Boulevard running through the borough; also the boulevard running through the Rockaways would be a very good thing and would work for the best interests of the borough. That the Borough of Queens is a borough of homes is evidenced by the fact that during the year plans for dwellings to the amount of 3,442 were filed and acted upon, exclusive of 269 tenements and 500 stores and dwellings, and stores and tenements, which are, in part, occupied for dwelling purposes. During the year 1915 living accommodations were provided for 5,655 families.

There were 61 plans filed for factories, which compares favorably with the operation of this class in former years. The annexed tables will show the number of buildings, the classification and estimated cost of new building operations in each ward during the year. It will be seen that 50 per cent. of the manufactories were erected in the First Ward, while the tenements were almost equally divided between the First and Second Wards. The Third Ward shows an increase in total operations over former years. The Fourth Ward is truly a home-providing ward, over 50 per cent. of the plans filed for dwellings being located in this ward. In the Fifth Ward, however, the major portion of the operations were also for residence purposes.

A comparative statement showing the total building operations for the past four years is annexed hereto as providing a means of comparison in classification and cost with former years. A comparative statement of building operations from 1898 to 1913, inclusive, may be found in my report for the year 1913.

The total amount of building operations in this borough from consolidation to the 31st day of December, 1915, represents an expenditure of \$238,900,297, which would be 45 per cent. of the assessed valuation of all property in the Borough of Queens as of that date.



The table of violations shows that there were filed 1,347 cases of violation of law, which have been disposed of as follows: 1,261 removed before action by the Court and 64 forwarded to the Corporation Counsel for prosecution. Most of the pending violations have been carried from former years, due to the fact that it has been impossible up to date to have a systematic reinspection made in each and every case, which, however, it is my intention to have made during the coming year. A great many of the old violations having passed from the jurisdiction of this bureau to the Tenement House Department can no doubt be cancelled on our records, thereby disposing of many of the cases.

During the year this bureau has made 166,410 inspections, which shows an average of twenty inspections a day for each inspector, a good showing considering they are scattered over a territory of 129 square miles.

PLANS AND APPLICATIONS FOR NEW BUILDINGS FILED AND ACTED UPON DURING THE  
YEAR ENDED DECEMBER 31, 1915.

*First Ward.*

Number.	Classification.	Estimated Cost.
1	Frame Dwellings .....	\$3,000.00
173	Brick Dwellings .....	838,050.00
1	Frame Stores and Dwellings.....	7,400.00
46	Brick Stores and Dwellings.....	292,800.00
..	Frame Tenements .....	..
125	Brick Tenements .....	1,562,100.00
..	Frame Stores and Tenements.....	..
31	Brick Stores and Tenements.....	390,000.00
4	Public Buildings (Amusements).....	172,000.00
..	Public Buildings (Municipal).....	..
32	Manufactories and Workshops.....	864,200.00
2	Churches .....	21,000.00
..	Schools .....	..
..	Hotels, Boarding Houses, etc.....	..
..	Hospitals .....	..
12	Storage, Warehouses, etc.....	31,200.00
2	Office Buildings .....	160,700.00
53	Garages .....	71,000.00
10	Stables .....	91,000.00
12	Other Frame Structures.....	6,875.00
504	Totals .....	\$4,511,325.00

PLANS AND APPLICATIONS FOR NEW BUILDINGS FILED AND ACTED UPON DURING THE  
YEAR ENDED DECEMBER 31, 1915.

*Second Ward.*

Number.	Classification.	Estimated Cost.
323	Frame Dwellings .....	\$1,435,100.00
484	Brick Dwellings .....	2,546,200.00
24	Frame Stores and Dwellings.....	85,800.00
146	Brick Stores and Dwellings.....	826,800.00
..	Frame Tenements .....	..
134	Brick Tenements .....	1,306,000.00
..	Frame Stores and Tenements.....	..
19	Brick Stores and Tenements.....	209,000.00

Number.	Classification.	Estimated Cost.
12	Public Buildings (Amusements).....	149,600.00
..	Public Buildings (Municipal).....	.....
14	Manufactories and Workshops.....	208,100.00
3	Churches .....	25,000.00
3	Schools .....	67,000.00
2	Hotels, Boarding Houses, etc.....	26,890.00
..	Hospitals .....	.....
8	Storage, Warehouses, etc.....	19,600.00
2	Office Buildings .....	110,000.00
140	Garages .....	84,500.00
35	Stables .....	59,300.00
270	Other Frame Structures.....	72,100.00
1,619	Totals .....	\$7,230,990.00

PLANS AND APPLICATIONS FOR NEW BUILDINGS FILED AND ACTED UPON DURING THE  
YEAR ENDED DECEMBER 31, 1915.

*Third Ward.*

Number.	Classification.	Estimated Cost.
220	Frame Dwellings .....	\$989,500.00
90	Brick Dwellings .....	114,600.00
6	Frame Stores and Dwellings.....	24,535.00
39	Brick Stores and Dwellings.....	147,000.00
..	Frame Tenements .....	.....
..	Brick Tenements .....	.....
..	Frame Stores and Tenements.....	.....
..	Brick Stores and Tenements.....	.....
2	Public Buildings (Amusements).....	16,000.00
..	Public Buildings (Municipal).....	.....
15	Manufactories and Workshops.....	149,900.00
4	Churches. ....	18,000.00
1	Schools .....	10,000.00
..	Hotels, Boarding Houses, etc.....	.....
..	Hospitals .....	.....
5	Storage, Warehouses, etc.....	7,300.00
3	Office Buildings .....	150,000.00
145	Garages .....	73,100.00
14	Stables .....	13,000.00
92	Other Frame Structures.....	29,650.00
636	Totals .....	\$1,742,585.00

PLANS AND APPLICATIONS FOR NEW BUILDINGS FILED AND ACTED UPON DURING THE  
YEAR ENDED DECEMBER 31, 1915.

*Fourth Ward.*

Number.	Classification.	Estimated Cost.
1,104	Frame Dwellings .....	\$3,152,359.00
354	Brick Dwellings .....	1,075,000.00
62	Frame Stores and Dwellings.....	142,600.00
108	Brick Stores and Dwellings.....	499,300.00

Number.	Classification.	Estimated Cost.
7	Frame Tenements .....	31,000.00
3	Brick Tenements .....	42,700.00
..	Frame Stores and Tenements.....	.....
..	Brick Stores and Tenements.....	.....
6	Public Buildings (Amusements).....	72,000.00
..	Public Buildings (Municipal).....	.....
..	Manufactories and Workshops.....	.....
7	Churches .....	78,200.00
7	Schools .....	47,500.00
..	Hotels, Boarding Houses, etc.....	.....
..	Hospitals .....	.....
..	Storage, Warehouses, etc.....	.....
2	Office Buildings .....	73,100.00
260	Garages .....	147,200.00
24	Stables .....	40,425.00
279	Other Frame Structures.....	106,250.00
2,223	Totals .....	\$5,507,634.00

PLANS AND APPLICATIONS FOR NEW BUILDINGS FILED AND ACTED UPON DURING THE  
YEAR ENDED DECEMBER 31, 1915.

*Fifth Ward.*

Number.	Classification.	Estimated Cost.
660	Frame Dwellings .....	\$1,030,650.00
24	Brick Dwellings .....	71,500.00
12	Frame Stores and Dwellings.....	35,400.00
7	Brick Stores and Dwellings.....	48,000.00
..	Frame Tenements .....	.....
..	Brick Tenements .....	.....
..	Frame Stores and Tenements.....	.....
..	Brick Stores and Tenements.....	.....
4	Public Buildings (Amusements).....	48,800.00
..	Public Buildings (Municipal).....	.....
..	Manufactories and Workshops.....	.....
..	Churches .....	.....
..	Schools .....	.....
2	Hotels, Boarding Houses, etc.....	52,610.00
..	Hospitals .....	.....
..	Storage, Warehouses, etc.....	.....
..	Office Buildings .....	.....
23	Garages .....	9,216.00
4	Stables .....	8,570.00
29	Other Frame Structures.....	9,112.00
765	Totals .....	\$1,313,858.00

PLANS AND APPLICATIONS FOR NEW BUILDINGS FILED AND ACTED UPON DURING THE YEAR ENDED DECEMBER 31, 1915.

Classification.	1912.		1913.		1914.		1915.	
	Number.	Estimated Cost.	Number.	Estimated Cost.	Number.	Estimated Cost.	Number.	Estimated Cost.
Frame Dwellings .....	2,691	\$7,890,089.00	2,530	\$6,540,471.00	2,309	\$5,823,984.00	2,317	\$6,610,609.00
Brick Dwellings .....	674	2,860,850.00	536	2,455,410.00	505	2,123,550.00	1,125	4,645,350.00
Frame Stores and Dwellings .....	65	179,825.00	76	198,460.00	86	204,075.00	105	295,735.00
Brick Stores and Dwellings .....	176	869,900.00	131	654,650.00	234	1,180,850.00	346	1,813,900.00
Frame Tenements .....	1	4,000.00	7	35,500.00	11	48,400.00	7	31,000.00
Brick Tenements .....	203	1,954,800.00	247	2,999,500.00	293	3,649,800.00	262	2,910,800.00
Frame Stores and Tenements .....	1	4,500.00	...	...	...	...	...	...
Brick Stores and Tenements .....	17	167,500.00	95	899,000.00	30	361,500.00	50	599,000.00
Public Buildings (Amusements) .....	52	523,100.00	53	335,475.00	40	375,200.00	28	458,400.00
Public Buildings (Municipal) .....	13	652,000.00	4	98,500.00	...	...	...	...
Manufactories and Workshops .....	83	2,922,150.00	56	1,107,150.00	...	2,056,200.00	61	1,222,200.00
Churches .....	6	98,500.00	10	51,900.00	12	139,800.00	16	142,200.00
Schools .....	6	437,000.00	11	721,579.00	8	925,000.00	11	124,500.00
Hôtels, Boarding Houses, etc. ....	20	274,100.00	16	156,200.00	2	41,000.00	4	79,500.00
Hospitals .....	1	87,000.00	3	347,600.00	1	1,000.00	...	...
Storage and Warehouses .....	23	97,050.00	20	282,625.00	18	488,400.00	25	58,100.00
Office Buildings .....	22	240,875.00	16	98,300.00	5	60,000.00	9	493,800.00
Garages .....	214	143,798.00	241	249,673.00	347	241,136.00	621	385,016.00
Stables .....	97	104,365.00	80	131,680.00	79	139,100.00	87	212,295.00
Other Frame Structures .....	456	139,820.00	514	151,562.00	563	239,295.00	682	223,987.00
Totals .....	4,821	\$19,651,222.00	4,646	\$17,515,235.00	4,596	\$18,098,290.00	5,756	\$20,306,392.00

PLANS AND APPLICATIONS FOR ALTERATIONS FILED AND ACTED UPON DURING THE YEAR ENDED DECEMBER 31, 1915.

Classification.	1912.		1913.		1914.		1915.	
	Number.	Estimated Cost.	Number.	Estimated Cost.	Number.	Estimated Cost.	Number.	Estimated Cost.
Frame Dwellings .....	741	\$329,234.00	1,302	\$366,152.00	1,580	\$415,367.00	1,813	\$415,485.00
Brick Dwellings .....	21	8,400.00	36	10,179.00	133	30,820.00	124	25,875.00
Frame Stores and Dwellings .....	214	106,129.00	313	112,799.00	279	132,811.00	260	94,477.00
Brick Stores and Dwellings .....	49	14,362.00	66	15,925.00	128	53,548.00	131	26,183.00
Frame Tenements .....	17	4,995.00	22	5,179.00	28	5,315.00	45	8,170.00
Brick Tenements .....	9	4,100.00	14	14,945.00	34	18,290.00	46	14,400.00
Frame Stores and Tenements .....	10	3,055.00	17	3,390.00	26	5,800.00	29	5,465.00
Brick Stores and Tenements .....	17	12,176.00	27	12,664.00	39	13,255.00	42	13,095.00
Public Buildings (Amusements) .....	30	17,945.00	43	48,642.00	46	51,300.00	44	23,585.00
Public Buildings (Municipal) .....	4	10,350.00	3	2,118.00	7	9,425.00	3	1,995.00
Manufactories and Workshops .....	96	185,335.00	155	261,312.00	150	241,375.00	160	191,465.00
Churches .....	9	31,425.00	15	24,033.00	23	18,125.00	18	46,430.00
Schools .....	14	226,500.00	20	56,350.00	36	48,725.00	19	29,010.00
Hotels, Boarding Houses, etc. ....	37	70,327.00	67	75,555.00	40	47,725.00	36	42,170.00
Hospitals .....	2	700.00	4	724.00	4	2,000.00	...	...
Storage and Warehouses .....	18	114,385.00	43	135,151.00	35	29,155.00	33	26,540.00
Office Buildings .....	17	5,250.00	20	29,540.00	23	35,486.00	26	30,660.00
Garages .....	15	6,085.00	31	4,352.00	40	25,780.00	39	21,495.00
Stables .....	29	11,800.00	41	13,103.00	39	27,990.00	46	26,175.00
Other Frame Structures .....	124	24,690.00	259	41,973.00	219	62,889.00	245	34,730.00
Totals .....	1,473	\$1,187,243.00	2,498	\$1,234,086.00	2,909	\$1,275,181.00	3,159	\$1,077,405.00

VIOLATIONS OF THE LAW DURING THE YEAR ENDED DECEMBER 31, 1915.

Nature of Violation.	Pending December 31, 1914.	Received Since.	Total for Disposition.	Removed.	Pending December 31, 1915.	Referred to Corporation Counsel.
Defective construction, plumbing, etc. ....	688	469	1,157	429	728	35
Erecting, altering or moving without a permit .....	697	647	1,344	479	865	29
Unsafe buildings .....	242	231	473	353	120	..
Totals.....	1,627	1,347	2,974	1,261	1,713	64

RECORD OF INSPECTIONS.

Kind.	Number.
Construction .....	125,024
Elevator .....	2,095
Plumbing .....	37,879
Plastering .....	1,412
Totals.....	166,410

WORK COMPLETED.

New Buildings .....	2,564
Alterations .....	1,312















UNIVERSITY OF ILLINOIS-URBANA



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